

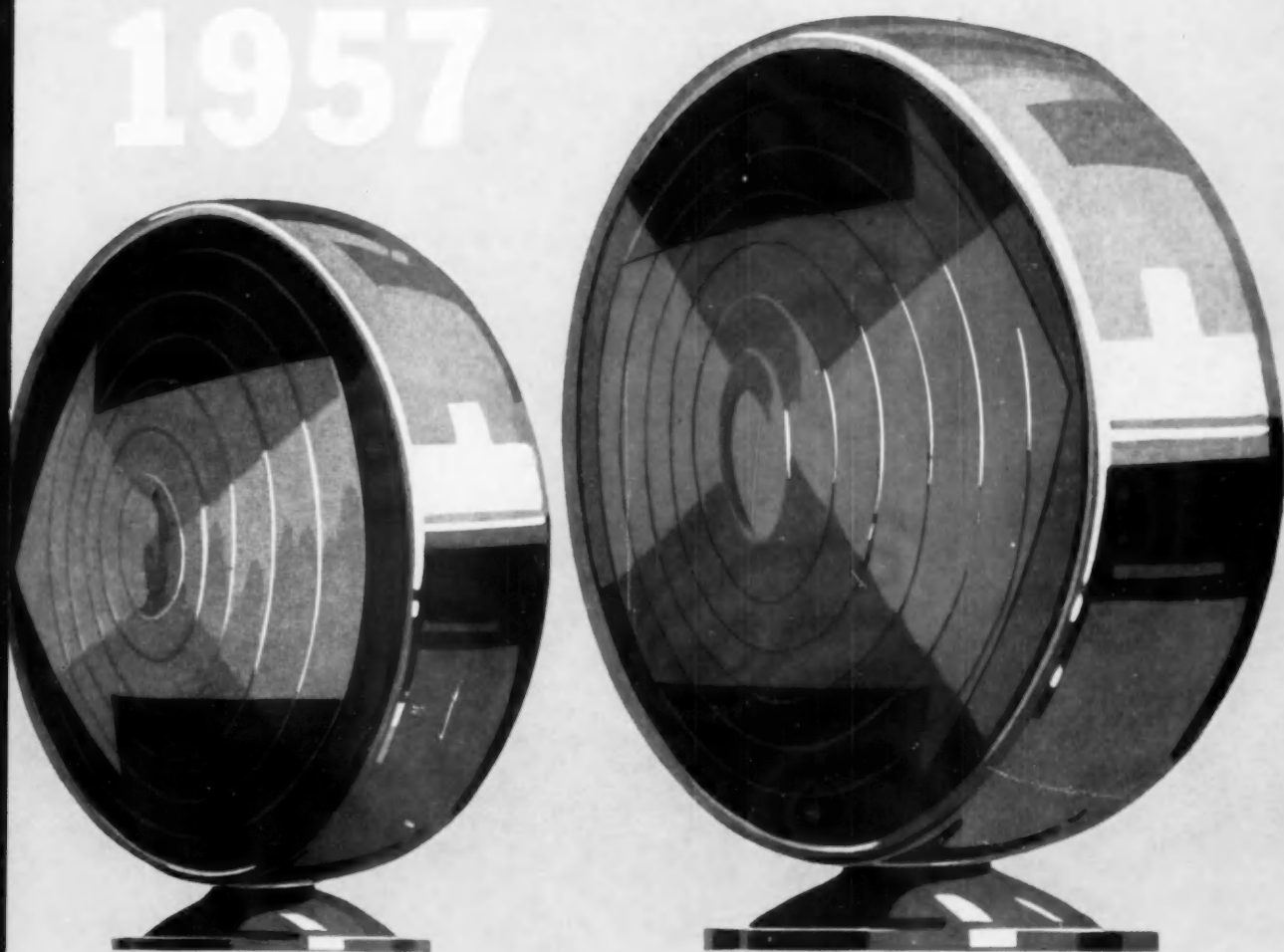
NOVEMBER 1957

# COMMERCIAL CAR JOURNAL

A CHILTON PUBLICATION

THE MAGAZINE FOR TRUCK  
AND BUS FLEET OPERATORS

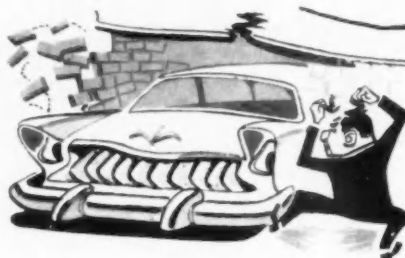
1957



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If your firm leases fleet units, ask your leasing company for low Rambler rates or write us for the names of leasing companies with whom we have working arrangements.





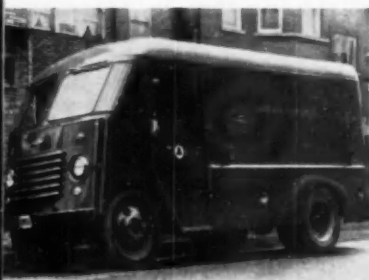
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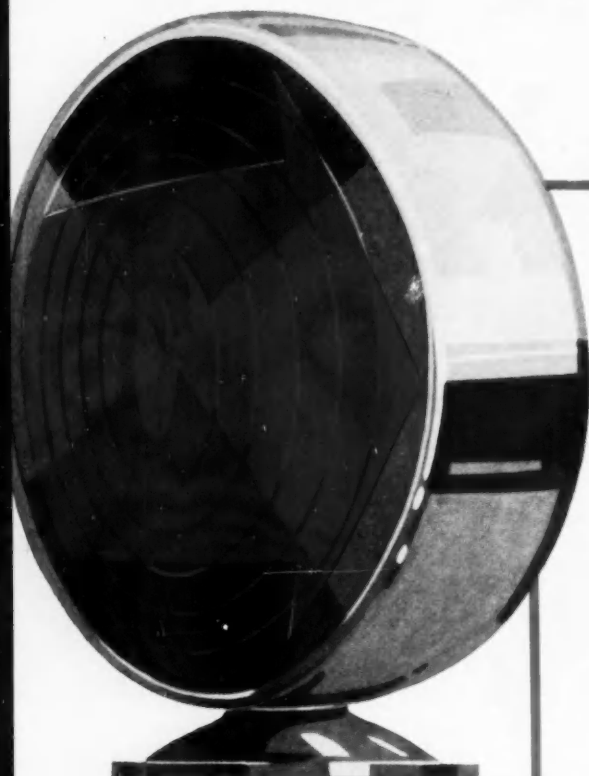


Bridgeport (Conn.) Post-Telegram fleet



# COMMERCIAL CAR

NOVEMBER 1957 • Vol. 94 • No. 2



Mr. Fleetman—truck, bus or construction, here's your 1957 COMPLETE-IN-ONE-ISSUE guide to suppliers of the hundreds of items you use in your operation. It's as up-to-date as continuous, year 'round revision can make it, as easy-to-use as previous editions.

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For your convenience, an index of products advertised to help you quickly check the ones you are interested in

### Fleet Buyers' Product Directory.. 73

From abrasives to wrist pins, this complete list of suppliers of vehicles, component parts, shop equipment and supplies will help you quickly locate the items you need for efficient fleet operation

### Fleetman's Association Directory 141

It includes national, state and local groups concerned with truck, bus and construction fleet operation

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**Commercial Car Journal . . .**

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the price has been forgotten..."**



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6" x 9" clear glass, rubber rimmed  
mirror head... completely ad-  
justable... extra swivel assembly on  
zinc plated extension arms...  
simple bolt-on installation... G.M.C.  
truck bracket furnished... 3 screw  
tension adjustment head...  
Bonderized... finished in rock hard  
black baked enamel.



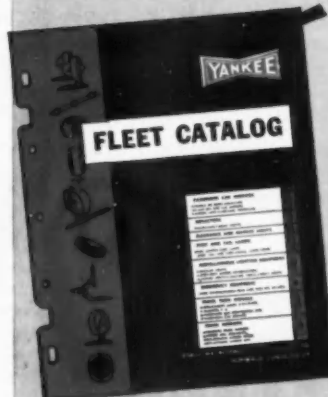
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Lightweight, rustproof, heavy-duty.  
Aluminum base and housing...  
fade-proof plastic lens... height  
1 3/4", with 2 5/16", length 5 1/4"...  
lens and mounting holes inter-  
changeable with standard equip-  
ment... baked aluminum finish.  
Available with red or amber lens  
... #63, 3 c.p. 6 volt bulb.  
Also available in 12 volt.



### #382 UNIVERSAL STOP AND TAIL LAMP

Double filament bulb—3 c.p. for tail  
lamp and 21 c.p. for stop light...  
approved reflex lens #256...  
plastic license illumination lens #3148.  
Complete with plug connector,  
wire leads and mounting hardware  
... Bonderized... finished in black  
baked enamel... overall diameter  
3 1/2"... #1188 6 volt bulb. Also  
available in 12 volt.



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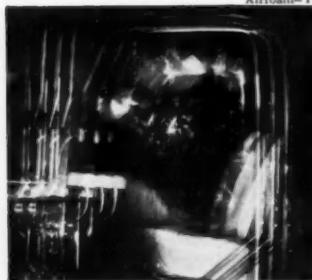
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original equipment on any truck!  
But be sure it's



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The World's Finest, Most Modern Cushioning



**MULTIPLE-EXPOSURE PHOTO** shows how the usual spring-and-padding type cushions amplify drags and jars. Also, time-lag in spring-action causes driver to bounce up as controls come down. Trying to compensate, driver cramps muscles, frazzles nerves, drains efficiency. Cushions wear out, too!



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Goodyear, Automotive Products Dept., Akron 16, Ohio



# THE OVERLOAD

E D I T O R I A L C O M M E N T

## The Aging Mortar Had Lost Its Grip

THE TRUCKING industry scored a great moral victory early last month when the U. S. District Court lashed out against the eastern railroads and their anti-truck campaigns. News of the decision (see page 34) spread rapidly from coast to coast. But as might be suspected the coverage shrank as the distance from Philadelphia increased. It is important that truckmen everywhere appreciate its full significance.

The key issue was this: Did they, the railroads, illegally conspire to create a near monopoly in transportation by influencing public opinion against the trucking industry. The answer was . . . yes!

The railroads have already announced their intention to appeal the case. It is possible that the Supreme Court will soften the vitriolic blast against the railroads contained in Judge Clary's 45,000-word 200-page decision.

But there are some phases of the case, most of them not spelled out in the summaries, that will always be remembered.

One is the courage of that little group of Pennsylvania truckers who back in 1952 decided they had had enough. It was not an easy job to stake out a court case against a group as strong as the Eastern Railroad Presidents' Conference. But they did it and they made it stick. So our industry owes a very special debt to these men. Among the leaders: Floyd Noerr, Sr., who was then President of Pennsylvania Motor

Truck Assn. The official court docket bore his name. Another: Edward Gogolin, PMTA General Manager.

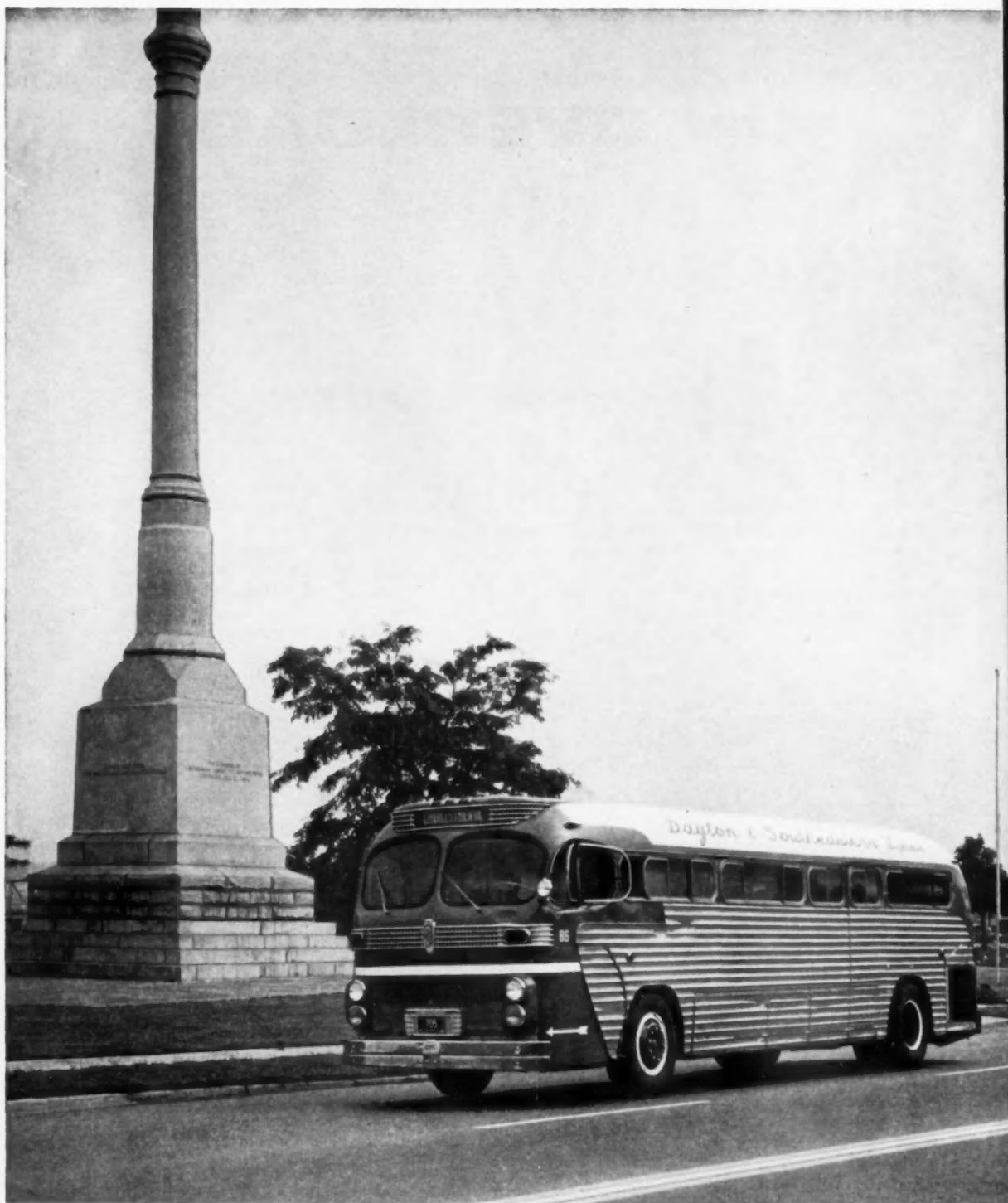
To Ed Gogolin also goes credit for the best understatement of 1957. The final decision was rendered while the American Trucking Assns. were in annual convention at Chicago. After "sweating it out" for five long years, Ed said quietly: "We hope (as a result of this case) the two great arms of American transportation will be able to work harmoniously in the best interests of this country's economic future."

We believe that all America will echo those feelings—including the railroads. For they played their "dirty pool" and lost. They watched, as we did, the quiet workings of the court. They saw the "truck" lawyers quietly and methodically lay bare the facts. There were never more than three of them. Harold Kohn, Aaron Fine and young Phil Kalodner. They were opposed by the best legal talent the railroads could muster. Often there were as many as forty on the court room floor at one time. But in all their might they were powerless before Judge Clary.

And the railroads know one more fact. They know that all of a sudden, back in 1955, as the pre-trial facts were aired, Pennsylvania raised its legal truck limits from 45,000 to 60,000 lb. They saw—all of a sudden—the great Chinese wall they had built so carefully around Pennsylvania come tumbling down. Strangely, the aging mortar had lost its grip.

Bart Rawson  
Editor





Protection is important to the Dayton Southeastern Bus Line. Its twelve trim buses get a year 'round protective seal for their wheel bearings with Texaco Marfak Heavy Duty 2; it gives extra thousands of miles between repackings,

and no seasonal change is required. Engines are protected against harmful deposits by Texaco D-303 Motor Oil HD, get full compression, complete combustion. Gears are protected by Texaco Universal Gear Lubricant EP.

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# How one Ohio fleet operator found the high road to low costs

Five years ago, the Dayton Southeastern Bus Line switched to Texaco *one hundred per cent*, and has been pleased with the results ever since.

**It gets more mileage on less fuel with fewer overhauls than ever before. There has never been a bearing replacement due to lubrication failure!**

One Texaco lubricant that Southeastern Bus points to for its remarkable ability to stay put is Texaco Marfak. This chassis bearing lubricant won't pound or squeeze out on the toughest runs. It reduces wear, prevents rust, makes parts last longer.

A Texaco Lubrication Engineer will be glad to map out your road to lower costs. Just call the nearest of the more than 2,000 Texaco Distributing Plants in the 48 States—or write:

The Texas Company, 135 East 42nd Street,  
New York 17, N. Y.

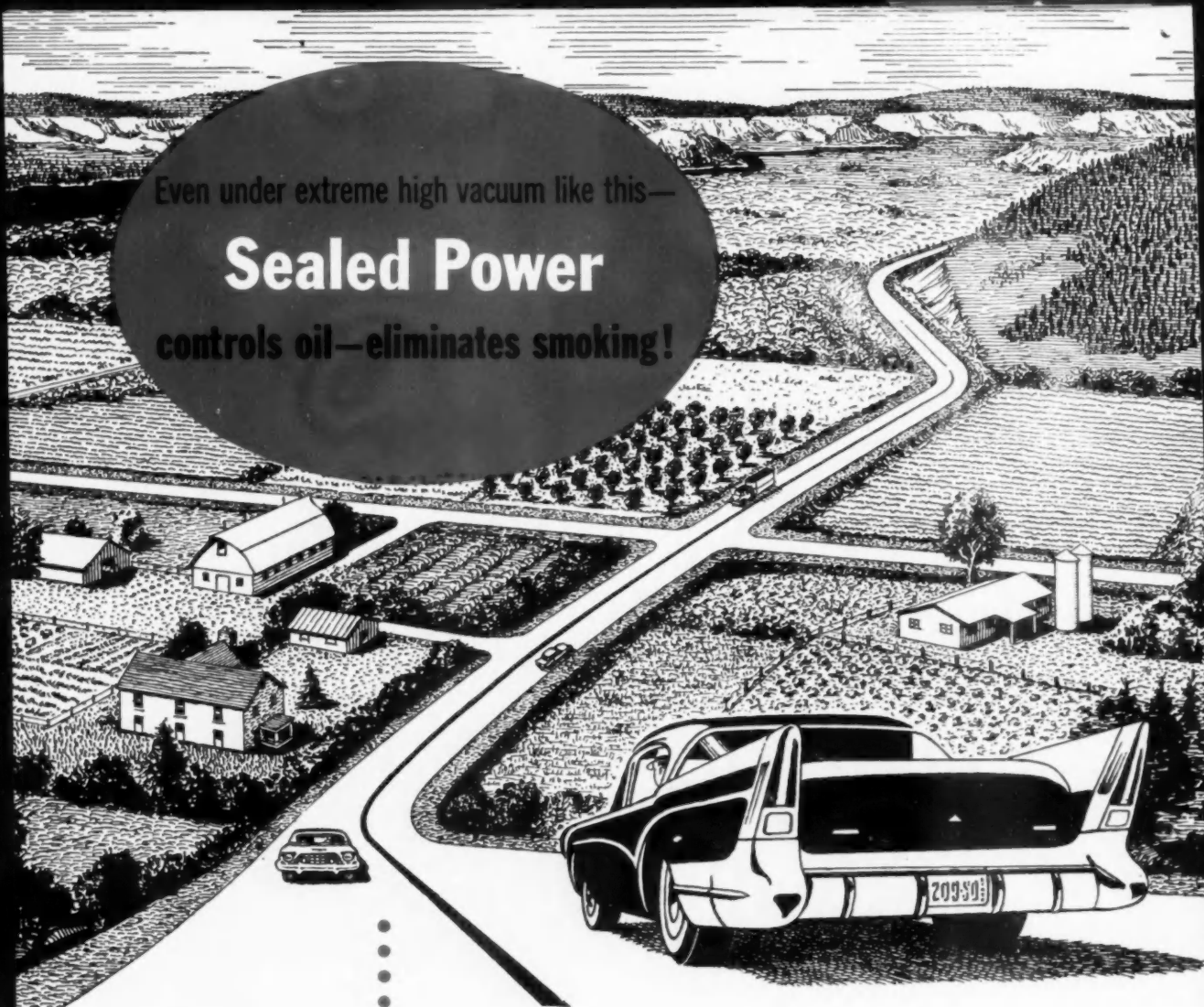


**FACTOR IN COST CONTROL**  
DOWNTIME, MAINTENANCE)

COMMERCIAL CAR JOURNAL, November, 1957

Even under extreme high vacuum like this—

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controls oil—eliminates smoking!



KromeX Ring Sets with new Stainless Steel\* Oil Rings deliver performance never before possible in engines which require super oil rings.

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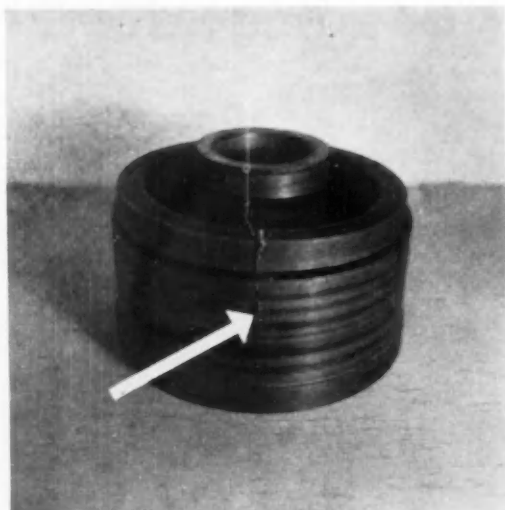
BEST FOR RE-RING!

BEST FOR RE-BORE!

# CCJ

## AT YOUR SERVICE

TIMELY NOTES ON MAINTENANCE AND OPERATION Edited by Paul A. Murphy, Technical Editor



### "Wha' Done It?"

THIS Hydra-Matic rear clutch was damaged due to improper installation of the rear clutch lock ring. Lock ring was installed with the gap positioned at one of the drive pins, allowing the pin to work out, consequently striking the case.

According to the GMC maintenance Manual, when assembling the rear clutch, install rear clutch drum and piston assembly over drive pins and into rear unit drum. Position rear unit in arbor-press with wooden block between press ram and clutch drum. Apply only enough pressure to install snap ring. *Position snap ring with gap in ring between two drive pins.* Set ring into groove with blunt punch. Important: Snap ring must be well seated in groove to prevent interference with ledge on drum.

Remove rear unit from arbor press and place on bench. With wood block and hammer, tap clutch drum rear thrust face to seat clutch drum against snap ring. Check clutch plates to be sure they are loose in drum.

### Polarizing Ford Generators

THIS METHOD of polarizing applies only to Ford generators. To polarize the generator,

the ignition switch must be off. Disconnect the battery lead and then the field lead from the voltage regulator. Then momentarily connect these two leads together. The purpose of this method is to separate the generator from the voltage regulator while polarizing the generator.

### Don't Cover Radiators With Cardboard

FLEET OPERATORS who cover the radiator with cardboard should take into consideration that cooling air does more than cool the radiator. For instance, generators mounted to the lower left or right of the engine can be dangerously overheated when the cooling air is blocked at the base of the radiator. Vehicles with voltage regulators and batteries mounted just behind the radiator need a flow of air in the general area to maintain a voltage control.

Since the battery is an electro chemical device and chemical action is speeded up or retarded by temperature changes it is of utmost importance that the charging circuit be kept within operating temperature range.

Perhaps it is better to consider the engine compartment as a wind tunnel designed to carry off heat and fumes normally produced in today's high compression engines. Therefore any modification done in the field can produce temperatures around engine accessories far above normal. For that reason it is better to adhere to the present design rather than clumsily change the air flow characteristics throughout the engine compartment.

### Winter Speedometer Service

UNDER NORMAL service, the factory speedometer cable lubricant should last 50,000 miles or more. However, in extreme hot and dusty climate, relubrication of the cable may be necessary at intervals of approximately 20,000 miles.

Before lubricating, inspect the inside cable for wear spots or breaks and inspect the outside casing for distortion or breaks, look for short bends or kinks. Spread a thin layer of

(TURN TO PAGE 12, PLEASE)



# "There is a difference in

FOR SAFETY'S SAKE  
INSIST ON GENUINE  
WAGNER LOCKHEED!

## **Wagner Lockheed**

*the best known name in brake service*



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# brands of brake fluid..."

## Wagner Lockheed BRAKE FLUID

*is better because it's balanced!*

This top-quality fluid surpasses S.A.E.\* specifications. It is compounded of the finest ingredients, and it is chemically balanced to permit it to withstand sub-zero temperatures without solidifying... to withstand extreme heat (generated from high-speed stops and hard usage) without gassing.

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\*Society of Automotive Engineers.

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Fleet operator reports  
after a year's use of

## Oakite Foam-Spray Unit



"It washed trucks cleaner  
— we expected that  
It saved cleaning time  
— we expected that, too  
... but  
it more than paid for itself  
on detergent savings alone  
— and that was a nice surprise!"

This enthusiastic report is typical of many from fleet owners using the Oakite Foam-Spray Unit for fast, easy washing of trucks. Hitched to your air supply, this portable unit sprays a blanket of Oakite detergent foam that hangs in place and works, instead of dripping off. Little or no brushing is needed. You get more cleaning, faster cleaning, at lower cost.

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Technical Service Representatives in Principal Cities of U. S. and Canada

# CCJ AT YOUR SERVICE

Continued from Page 9

special high-low temperature grease over the lower two-thirds of the inside cable. As cable is inserted into casing from upper end, the lubricant will spread over its entire length. Careful: Do not overlubricate.

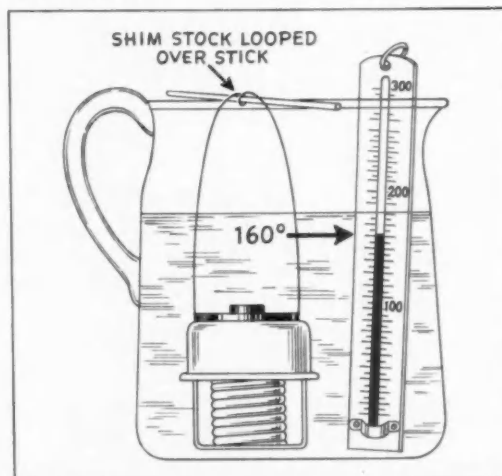
On the 1957 Fordomatic, do not force the cable against the nylon drive gear. It is possible to force the snap ring off the speedometer drive shaft allowing the nylon gear to drop into the rear section of the transmission.

One car rental fleet reported that they had three occasions where the gears had dropped inside the rear section of the transmission. On the first one, they tried in vain to fish the gear out but finally had to remove the rear section of the transmission in order to get the gear out. On the other two occasions, they simply left the gear inside the transmission. They claim they haven't had any trouble as yet.

### Testing Thermostats

WE HAVE all seen mechanics throw a thermostat into hot water, watch it open, fish it out with a pair of pliers and say, "This is OK." This type of testing is not close enough for accuracy. Only too often is a defective thermostat put back into the cooling system.

If it does not function properly it can cost the fleet operator much more in proportion to



the cost of a new thermostat. Before testing, carefully clean and examine the complete thermostat. If the bellows is badly dented, distorted or the spaces between corrugations filled with mud or other foreign matter not easily remov-

(TURN TO PAGE 16, PLEASE)



*This sign says...*

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THE BEST STOPS ON THE ROAD!”**

- ★ THE FINEST TRUCK STATION FACILITIES  
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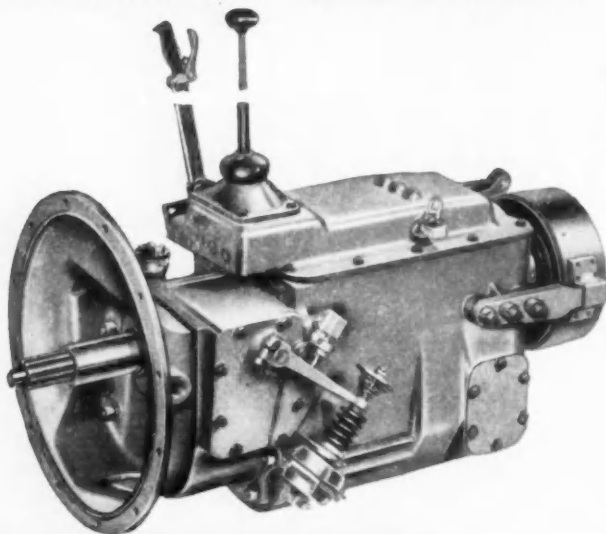
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Transmission gears synchronized. Semi-automatic shift for the splitting ratios

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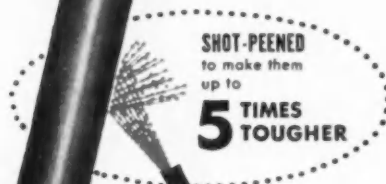
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# CCJ AT YOUR SERVICE

Continued from Page 12

able, the thermostat should not be reused. Distorted bellows have one or more bloated corrugations or corrugations not parallel with each other. In some cases, the frame of the thermostat housing may be bent, dented or twisted in such a way as to prevent proper closing.

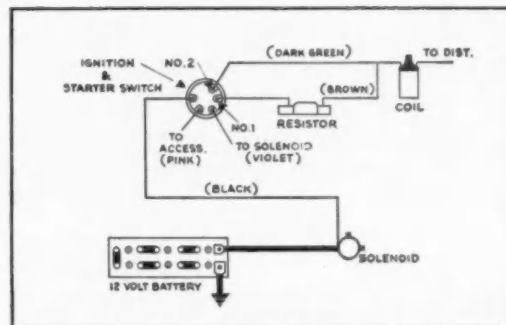
Here is one way of testing a thermostat that appeals to us because suspending the thermostat in this manner will give an accurate indication as to when the valve starts to open. It will also allow the mechanic to closely observe the exact reading on the thermometer at the time of the opening. Insert a piece of three thousandths shim stock  $\frac{1}{8}$  in. wide under the seat of the butterfly valve. Suspend the thermostat by the shim stock,  $\frac{1}{4}$  in. above the bottom of the container.

Heat the water slowly and stir it gently to normalize the temperature. Make sure that the thermometer does not strike against the side of the container as this may give a false reading on the thermometer.

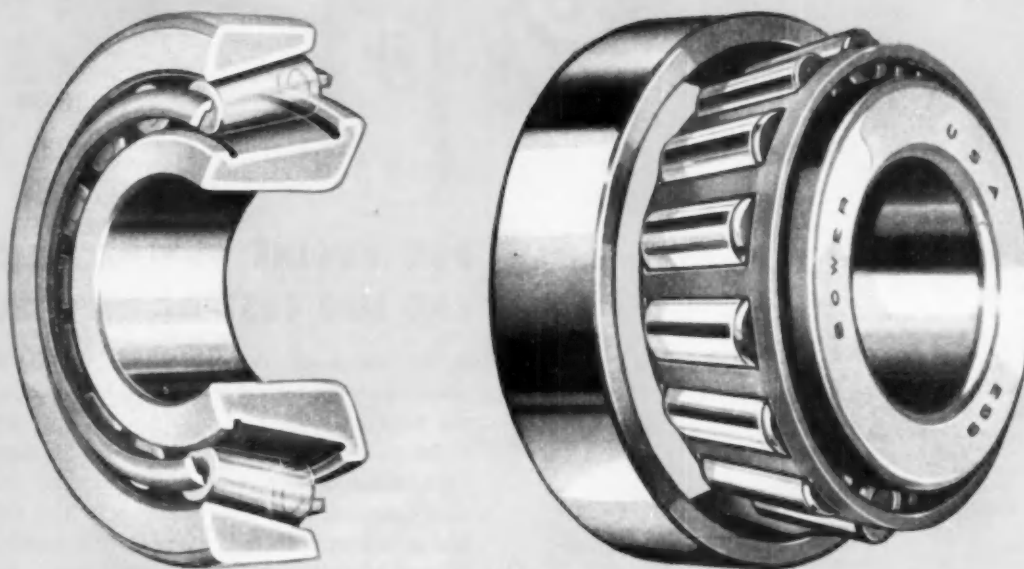
When the thermostat reaches opening temperature, the thermostat will drop to the bottom. Now as the water temperature increases, closely observe full opening procedure and watch for any signs of binding or any other irregularities such as only opening part way. Remember, the thermometer should be suspended in the water so that the bulb is at the same level as the thermostat element.

### Chevrolet Breaker Points

ACCORDING TO Champion's Service Corner, severe burning of breaker points and other ignition system difficulties have been traced to improper hookup of the ignition switch. As



shown in the accompanying diagram, if No. 1 and No. 2 wires are reversed, the resistor will  
(TURN TO PAGE 20, PLEASE)



## **Bower bearings are bound to wear better... they're ground to fit**

Some bearings need "breaking in". Not Bower tapered roller bearings. They require no "run-in", because exclusive Spher-O-Honed design provides roller heads precision ground to operating contour. This means they hold adjustment and pre-load longer, give better performance over a longer life. And Bower exclusive higher flange design provide large, two-zone contact for roller heads... to reduce unit pressure, improve roller alignment, cut down wear and resultant end-play.

Bower roller bearings are widely used as original equipment and you'll be ahead by using them when replacements are necessary. Your vehicles will spend more time on the road, less time in the shop. Bower roller bearings are always right for the job. Insist on Bower roller bearings. They're readily available from most bearing distributors.



**BOWER**  
roller bearings

**FEDERAL-MOGUL SERVICE**  
DIVISION OF FEDERAL-MOGUL-BOWER BEARINGS, INC.



**Fleet Owners' Choice**

**FIRST**

**FOR ENGINE PERFORMANCE  
AND LOW COST MAINTENANCE**

Experience proves dependability — and the experience records of fleet owners, everywhere, are the basis of Zollner Piston popularity. Today, as for many years, Zollner Pistons are the dominant choice of most engine builders and most fleet operators. For replacement as well as original equipment, Zollner Pistons are specifically tailored to individual engine requirements. You can always be sure of highest engine performance and lowest maintenance cost when you specify Zollner for every piston job.

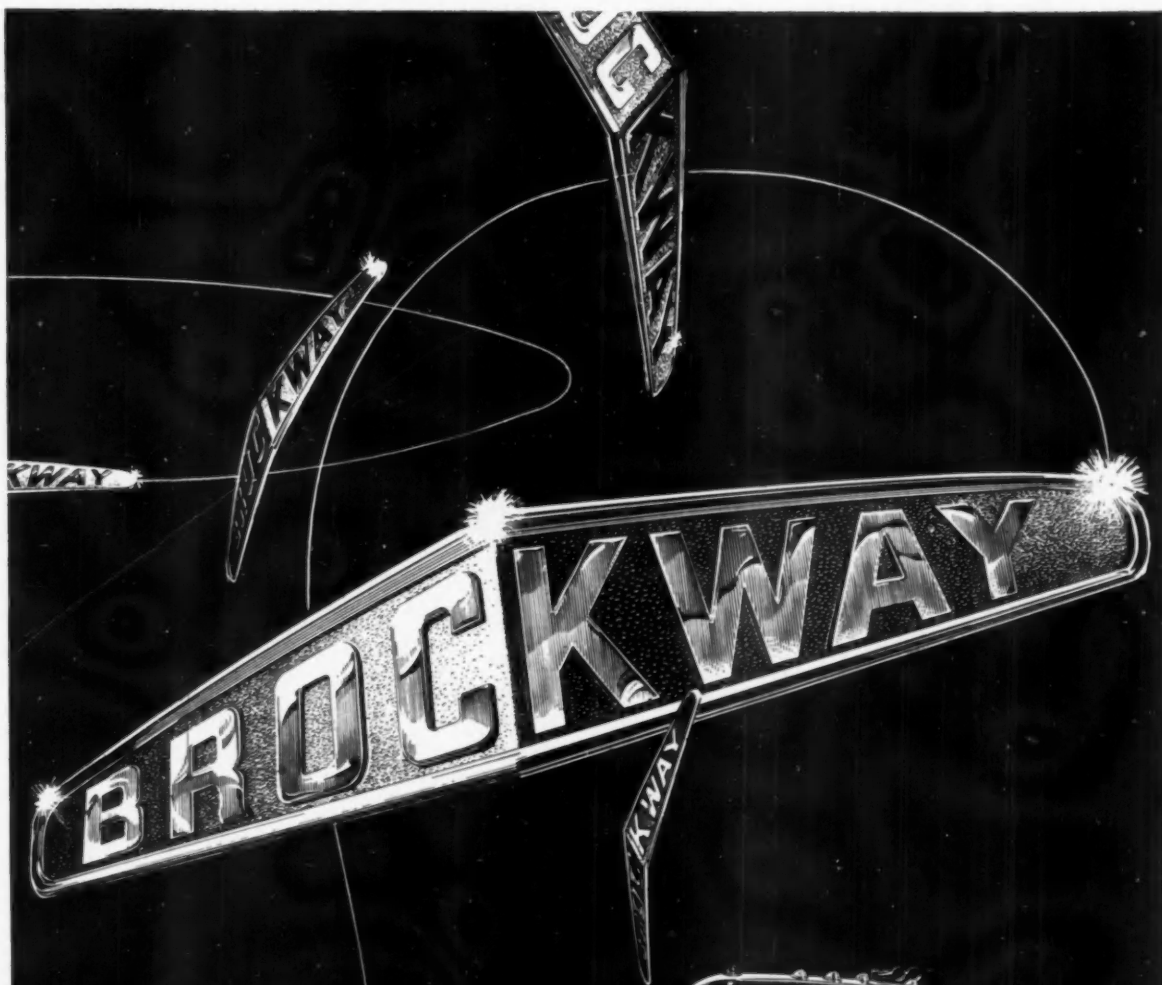


Over **70%** of all Truck and Bus  
Manufacturers use and recommend  
**ZOLLNER PISTONS**

**ZOLLNER** HEAVY DUTY PISTONS *by*  
**ZOLLNER**  
PISTONS

FOR RECONDITIONING ALWAYS SPECIFY THE "ENGINEER APPROVED" PISTON

**ZOLLNER CORPORATION • FORT WAYNE, INDIANA**



## WATCH OUT FOR BROCKWAY!

It's roaring into tomorrow with new plans... new energy... all on top of what the Brockway name has come to mean... a proven truck, custom-built to meet individual requirements.



*A Living Legend*

*of the Highways for 45 years!*

# BROCKWAY TRUCKS

BROCKWAY MOTOR TRUCKS, CORTLAND, N. Y.

DIVISION OF MACK TRUCKS, INC.



# CCJ AT YOUR SERVICE

Continued from Page 16

be in circuit only during starting instead of during engine operation when it is needed.

The purpose of this external resistor is to dissipate approximately 50 per cent of heat which normally would be generated inside the coil. Therefore, at low temperatures, the resistor eliminates excessive primary current and reduces the possibility of oxidizing the contact points. The reason the resistor is by-passed during cranking is to deliver all available battery voltage to improve starting, especially during winter months. This same situation could occur on other makes of cars or trucks where a resistor is used to reduce available voltage during engine operation.

## Taxi Ignition Point Life

PLYMOUTH has noted that 6-cyl ignition point life can be extended with the use of the V-8 coil and ballast. If burning of ignition points should occur in vehicles originally built for non-taxi service, installation of the V-8 coil and ballast is suggested.

## Keep Track of Bulk Anti-Freeze

HERE'S AN easy way to check exactly how much anti-freeze is in the drum.

1. Slot a file handle and secure it to the end of an unpainted yard stick.
2. Insert the yard stick in the drum opening.
3. Read the amount of inches of anti-freeze left in the drum.
4. Consult the chart below for converting inches into gallons.

Inches	Upright Gallons	Horizontal Gallons
1	1.7	0.5
2	3.4	0.9
3	5.1	1.6
4	6.8	2.4
5	8.5	3.4
6	10.2	4.3
7	11.9	5.4
8	13.6	6.5
9	15.3	7.7
10	17.0	8.9
11	18.1	10.2
12	20.7	11.4
13	22.4	12.8
14	24.1	14.2
15	25.8	15.6
16	27.5	17.0
17	29.2	18.5
18	30.9	20.0
19	32.6	21.4
20	34.3	22.9
21	36.0	24.5
22	37.7	25.9
23	39.7	27.4
24	41.1	29.0
25	43.1	30.6
26	44.8	32.1
27	46.5	33.6
28	48.2	35.1
29	49.9	36.6
30	51.6	38.0
31	53.3	39.5
32	—	40.9
33	—	42.3
34	—	43.7
35	—	45.0
36	—	46.3

(TURN TO PAGE 24, PLEASE)

# DON'T BE A HEADLINE!

**BE SAFE WITH A  
COLE-HERSEE  
Master DISCONNECT Switch**



Send For Our Form  
D-177 For Additional  
Information.



**COLE-HERSEE**

Over 40 Years of Consistently Better Products

20 OLD COLONY AVENUE, BOSTON 27, MASS.

**A FLIP OF THE LEVER AND YOU SHUT  
OFF ALL CURRENT TO PREVENT:**

### TAMPERING

Disconnects current when parked or garaged. In many cases results in lower insurance premiums.

### FIRES

Disconnects battery circuits to prevent fires of any electrical origin.

### BATTERY RUN DOWN

No drain if some switches have been unknowingly left "On".

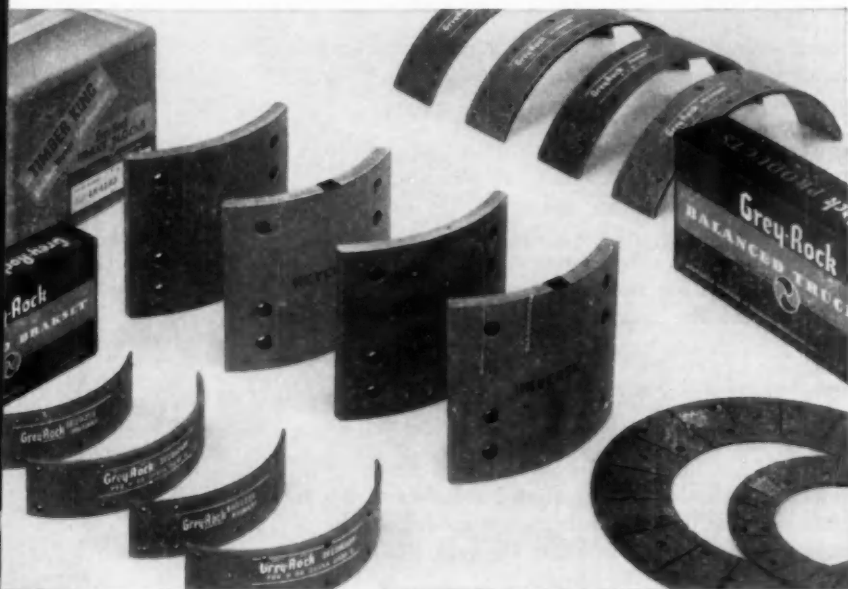
## TRUCK OVERTURNS AND BURNS

A truck carrying inflammable material crashed and burned on the heavily traveled highway. The truck jackknifed and slid along the highway, and then tipped on its side. A few seconds later it burst into flames. Fire investigators declared that the fire evidently resulted from an electrical spark from the truck's ignition system.



On any type vehicle—truck, bus or passenger car—

# Grey-Rock *Balanced* Brake Blocks and Linings mean lower cost-per-mile



Next to tire replacement, brake service is the costliest of all fleet maintenance items. That's why—on vehicles from the heaviest trucks and buses to passenger cars—Grey-Rock *Balanced* Brake Blocks and linings can save you real money.

With Grey-Rock, balance is not just a matter of high and low friction. For every make and model Grey-Rock combines just the right friction materials to equalize wear

in blocks and linings—to maintain balance between shoes in the same wheel, between front and rear axles, between tractor and trailer axles.

With *balanced* brakes you get more miles between relines—less costly drum replacement—on-schedule operation—lower maintenance costs—all adding up to lower cost-per-mile. Ask *your* jobber about Grey-Rock *Balanced* Brake Blocks and Linings, or write us direct now.

Only **Grey-Rock** *makes*

**BALANCED BRAKSET LININGS**

BALANCED BRAKSETS • TRUCKSETS • BRAKE BLOCKS • VEE-LOK® CLUTCH FACINGS

GREY-ROCK DIVISION of Raybestos-Manhattan, Inc., MANHEIM, PA.



RAYBESTOS-MANHATTAN, INC., Brake Linings • Brake Blocks • Clutch Facings • Mechanical Packings • Asbestos Textiles • Industrial Rubber • Sintered Metal Products • Engineered Plastics • Rubber Covered Equipment • Abrasive and Diamond Wheels • Laundry Pads and Covers • Bowling Balls • Industrial Adhesives

*With* **GREY-ROCK**  
*you can...*



## SEE the Difference

See the difference in the many friction materials Grey-Rock uses. For light trucks—*Balanced* Trucksets, in distinctive woven and molded combinations, or in all-woven or all-molded sets. For heavy jobs—*Balanced* Blocks in combinations of molded materials, and "Timber King" molded-woven sets. All specially engineered for each make and model.



## FEEL the Difference

Feel the difference in faster, smoother brake action—minimum fade—quicker water recovery—and a good pedal that assures driver peace of mind. Grey-Rock gives you the superior braking features you want and need.



## SAVE the Difference

You save because Grey-Rock *Balanced* Brake Blocks and *Balanced* Trucksets give more miles between relines—longer drum life—better tire wear—less labor and down-time. See your Grey-Rock jobber.

## **Gets four benefits**

## **by switch to AMOCO\* Lithium Multi-Purpose Grease**

*Single grease now does the job in all  
grease-lubricated bearings serviced by Bergsma Brothers*

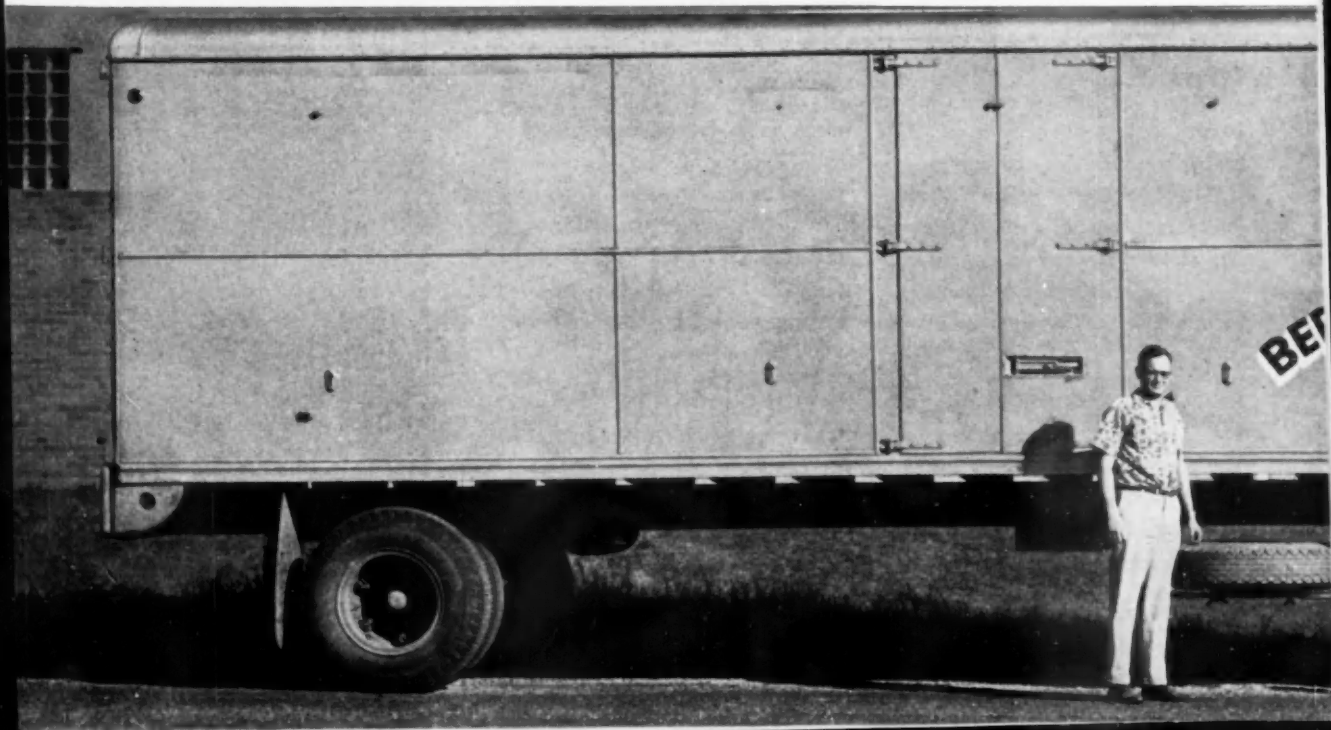
This Grand Rapids, Michigan, furniture manufacturer felt, as many people do, that a fibrous grease was needed for lubricating tractor and trailer wheel-bearings. They stocked a special grease for this purpose.

**Standard Oil's Bob Cleland** talked over the properties of Amoco Lithium Multi-Purpose Grease with Bergsma maintenance man, D. W. Edsall. It has, Bob explained, special heat and water resistant characteristics. It has the ability to maintain consistency in the severe service encountered in wheel-bearing lubrication. Bergsma Brothers tried it. Wheel-bearing overhaul due to lube failure stopped right then. There hasn't been one since the switch. Tractor wheel-bearings are lubricated every 10,000 miles, trailers every six months. The four benefits:

1. Better lubrication of wheel-bearings.
2. Elimination of a grease, cut inventories, reduced grease handling equipment.
3. Grease waste reduced.
4. Danger of grease misapplication eliminated.

Stake yourself to some savings like this and eliminate lubrication headaches at the same time. Check in with the Standard Oil automotive lubrication specialist that is near you in any of the 15 Midwest and Rocky Mountain states. Or write Standard Oil Company, 910 South Michigan Avenue, Chicago 80, Illinois.

All of Bergsma Brothers fleet now use only one grease for wheel-bearings and ball-bearings which they lubricate.





D. W. Edsall (left), Bergsma Brothers maintenance superintendent, and Bob Cleland, Standard Oil lubrication specialist, discuss performance of AMOCO Lithium Multi-Purpose Grease. Bob is an able man on lubrication technical service. He's been giving this service to customers for five years. To qualify for such work, Bob has a degree in engineering from Michigan State. He has also completed the Standard Oil Company Sales Engineering School.

Quick facts about  
**AMOCO\* Lithium Multi-Purpose Grease**

- An all-purpose grease. Used wherever chassis, wheel-bearing or ball-bearing greases are specified.
- Available in two grades. Soft grade for use in extreme low temperature service.
- Available in convenient, sealed cartridges for easy, dirt-free insertion in grease guns.
- Resistant to heat and water.



**STANDARD OIL COMPANY**  
(Indiana)

\*Trade mark Amoco registered U. S. Patent Office by The American Oil Company and used by Standard Oil Company under license.



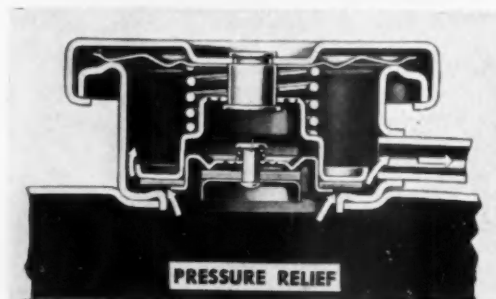
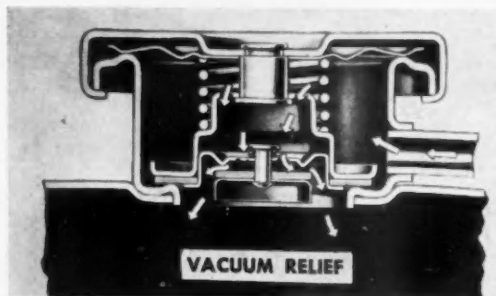
Continued from Page 20

## Additive Oils and Slow Run-In

**S**AYS ARTHUR M. Brennehe, Perfect Circle Corp., the only yardstick for run-in we use is oil consumption. Specifically, how long must the engine be operated before the oil consumption rate stabilizes or reaches a satisfactory economical figure? The trouble is while everybody thinks in terms of oil consumption, they talk in terms of wear, and there is really no proven correlation between wear and run-in.

In all dynamometer and road testing, we have used premium oils indiscriminately in new engines, completely rebuilt engines, and in re-ring installations in very badly worn equipment. While we occasionally encounter slow run-in problems, we have been unable to blame it on the lubricating oils. We usually find we have bungled some mechanical detail.

We are not prepared to state flatly that a run-in problem does not exist with high additive oils, but we state without qualification that we have no first-hand experience indicating its existence. We have never seen any good, solid, clear-cut, functional data from any source proving that such a problem exists.



## Cooling System Pressure Testing

**W**ITH THE AID of a pressure tester, the cooling system or cap can be tested in a matter of minutes. To test the cooling system, remove the radiator cap and install a tester on the radiator. Pump up the pressure to about six

(TURN TO PAGE 28, PLEASE)

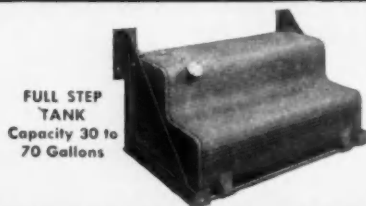
# THE SAFEST WAY TO CARRY FUEL



**SADDLE TANK**  
Capacity 98 to 145  
Gallons



**CYLINDER TANK**  
Capacity 28 to 72  
Gallons



**FULL STEP TANK**  
Capacity 30 to  
70 Gallons

In addition to Snyder's own "Balanced Construction" design which insures lighter weight, streamlined yet stronger tanks . . . all Snyder Safety Tanks are engineered and constructed to meet all the requirements for automotive safety fuel tanks, and are approved by Underwriters Laboratories, Inc. label or reexamination services. All Snyder Safety Tanks are also manufactured and tested to conform with the specifications of the Bureau of Motor Carriers of the I.C.C.

The Snyder Safety Diesel Tank has all the safety and construction features of the gasoline tank, however is equipped with larger outlets to accommodate the heavier fuel lines.

**SNYDER SAFETY TANKS**

**SNYDER TANK CORPORATION**

P. O. BOX 14, BUFFALO 5, N. Y.

P. O. BOX 3162, BIRMINGHAM 1, ALABAMA



**THIS  
RING**  
*prevents  
oil waste  
due to  
high  
vacuum  
conditions*

!

# Stainless Steel Oil Ring



**It's side-sealing.** Axial pressure of the stainless steel expander forces side rails against sides of groove, prevents oil waste due to high vacuum.

**No groove backing.** Circumferential pressure of the expander makes the ring conform to the bore without touching the bottom of the groove.



- Retains tension under extreme engine operating temperatures
- pre-seated chrome rails for instant seating, far longer life
  - won't corrode or sludge • delivers exceptional oil control.

New Stainless Steel Oil Ring available in Krome-Oil Ring Sets  
—where required by engine conditions

## AMERICAN HAMMERED

**AUTOMOTIVE REPLACEMENT DIVISION • 2001 Sanford St., Muskegon, Mich.**  
Manufacturers of American Hammered Automotive Replacement Piston Rings  
*A Division of Sealed Power Corporation*



"We would not consider ordering new equipment without **this clutch**"

... says D. H. Stoddard  
Equipment Superintendent  
Arkansas Motor Freight Lines, Inc.



**If** you want trouble-free performance like that of Arkansas Motor Freight in your vehicles, ask your original equipment sources to install the Lipe DP Clutch . . . now available for engines developing from 300 to 1300 ft-lb of torque. Write for complete details.

## He's talking about the *Lipe* Heavy-Duty Direct Pressure Clutch

"Since July, 1955," says Mr. Stoddard, "we have some 100 more heavy units equipped with the Lipe Direct Pressure Clutches. Some sixty units were so equipped as original specifications, with the remainder being changeovers from other makes and types of clutches."

"We are at present taking delivery of the first of 122 Model DF869 Diesels, all equipped with the DP clutch. From our past experience, we would not consider ordering new equipment without specifying this clutch. We operate some 1,500,000 miles per month, and . . . we have not had one wear out or burn out."



**MANUFACTURERS OF AUTOMOTIVE CLUTCHES & MACHINE TOOLS**



Specializing in heavy-duty hauling, the Grover C. Watkins Co., of Paducah, Ky., headed by owner Carlton Watkins, depends on KRAFT System Recapping for safer, surer extra mileage.

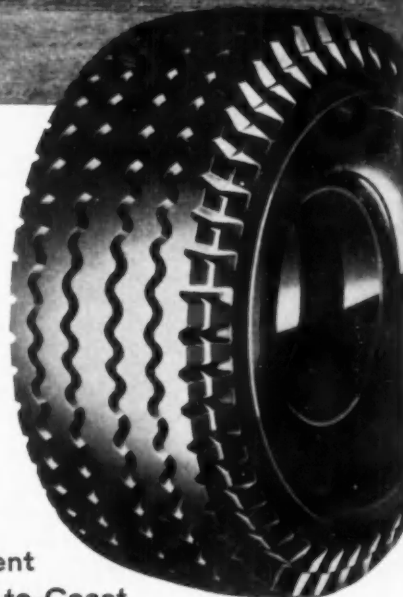
**"I highly recommend  
KRAFT<sup>®</sup>  
SYSTEM RECAPPING  
for amazing  
bonus mileage!"**



For the absolute maximum in profitable bonus tire mileage, more and more fleet owners are specifying KRAFT System Recapping.

Business-like and up-to-date in every respect, KRAFT is a quality-controlled system that offers guaranteed service on a coast-to-coast basis.

Discover today for yourself how dependable KRAFT System Recapping can build extra-mileage profits for you. Just call your nearest General Tire distributor for complete details. He's a good man to know for every tire and tire service need.



**KRAFT'S EXCLUSIVE "4"**

- ▶ Factory-trained recappers
- ▶ Factory-approved equipment
- ▶ Guaranteed service Coast-to-Coast
- ▶ Extra long mileage, top-quality materials

**KRAFT SYSTEM RECAPPING IS AUTHORIZED ONLY BY THE GENERAL TIRE & RUBBER COMPANY**

## IT'S THE FINISH THAT COUNTS...



## NASON GLYKO FLEET FINISH

Here's the answer for the person charged with the responsibility of keeping a fleet or equipment ready for productive action. In Glyko Fleet Finishes, Nason's chemists have combined successfully lacquer's quick-drying properties with the economy of enamel. Easier and faster to apply, Glyko Fleet Finishes enable you to spray and be on your way in as little as 45 minutes. For *guaranteed satisfaction* and increased savings, specify NASON Glyko Fleet Finishes on your next order!

- Cuts upkeep "downtime"
- Trims maintenance costs
- Covers better — lasts longer
- Won't sag or run
- Pre-packaged for color consistency
- Ideal for trucks, trailers, machinery

Call your jobber or write:

**R. N. NASON & CO.**

151 Potrero Avenue  
San Francisco, California



OAKLAND  
SAN FRANCISCO  
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FRESNO  
SAN JOSE  
SALT LAKE CITY  
SEATTLE  
PORTLAND  
TAMPA  
WICHITA  
NEWARK

## CCJ AT YOUR SERVICE

Continued from Page 24

pounds. If the gage indicates a pressure drop, check the system for leaks. If the gage remains constant, the cooling system is presumably air tight.

**Caution:** Under no circumstances should the pressure be allowed to exceed the limit of the pressure cap, or damage to the radiator may result.

To test the radiator cap, the procedure is the same with the exception that it is important that the cap be in upright position while testing. Also, it should be remembered that not only does the cap act as a pressure relief valve, it also has a built-in vacuum relief assembly. Should the cap fail to hold the pressure, it could be the fault of the outside pressure seal or the inside vacuum relief valve. In either case the cap should be replaced.

### Ford Carburetor Whistle

ACCORDING TO the Ford Service Letter, a whistle may occur in some two-barrel carburetors. The cause has been determined to be the 90° corner located at the bottom of the carburetor throttle bore. This whistling noise can be eliminated by using a file to remove the sharp edge at the junction of the throttle bores and the intake manifold flange. Care should be taken when performing this operation so that not more than 1/16 of the stock is removed. If more stock is taken off, it is possible to cause a manifold vacuum leak that will not only whistle but will cause the carburetor to function improperly.

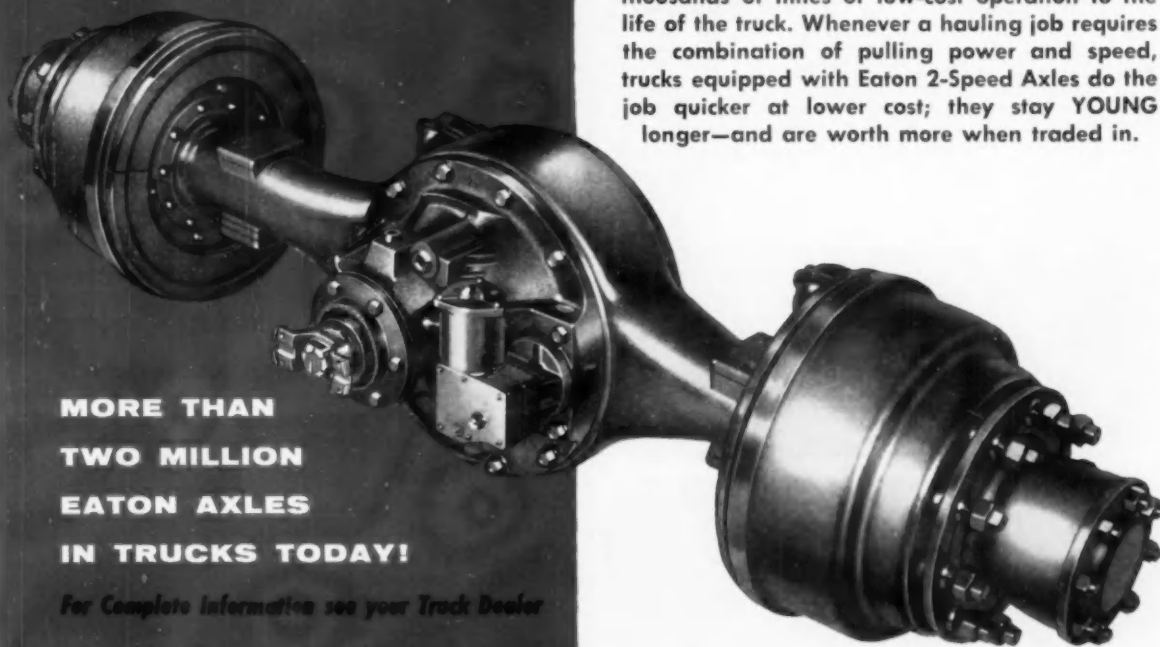
### Chevrolet Pinion Flange

THE PINION FLANGE oil seal used in 1955-57 passenger car and 1/2-ton truck rear axles should no longer be seated against the shoulder in the differential carrier housing bore. Bottoming the oil seal in the housing bore can distort the seal causing lubricant leakage and seal squeal during operation.

To avoid seal damage, it is recommended that the oil seal now be pressed to a depth in the carrier housing that permits the front face of the seal case to protrude 3/16 to 7/32 in. from the housing. In accordance with past recommendations, soak new seals in oil, use Permatex No. 3 between seal case and carrier housing, then install seal. (Courtesy of Chevrolet Service News.)

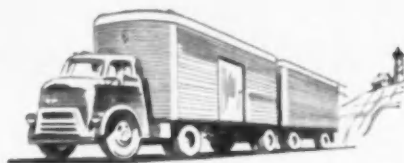


# Eaton 2-Speed Axles keep trucks YOUNG!



**MORE THAN  
TWO MILLION  
EATON AXLES  
IN TRUCKS TODAY!**

*For Complete Information see your Truck Dealer*



## **Add Extra Thousands of Low-Cost, Trouble-Free Miles**

Drivers of Eaton 2-Speed Axle trucks select from double the conventional number of gear ratios—pick the gear ratio best suited to road, load, and traffic conditions. Using the RIGHT gear ratio for every condition permits engines to run in their most efficient and economical speed range—reduces stress and wear on engine, transmission, and the axle itself. This reduction in stress and wear keeps trucks on the job and out of the shop, cuts operating and maintenance costs, and adds thousands of miles of low-cost operation to the life of the truck. Whenever a hauling job requires the combination of pulling power and speed, trucks equipped with Eaton 2-Speed Axles do the job quicker at lower cost; they stay YOUNG longer—and are worth more when traded in.

# EATON

AXLE DIVISION  
MANUFACTURING COMPANY  
CLEVELAND, OHIO



**PRODUCTS:** Engine Valves • Tappets • Hydraulic Valve Lifters • Valve Seat Inserts • Jet Engine Parts • Hydraulic Pumps  
Motor Truck Axles • Permanent Mold Gray Iron Castings • Forgings • Heater-Defroster Units • Automotive Air Conditioners  
Fastening Devices • Cold Drawn Steel • Stampings • Gears • Leaf and Coil Springs • Dynamatic Drives, Brakes, Dynamometers

## ENGINEER'S FIELD REPORT

PRODUCT RPM SUPREME MOTOR OIL  
VETERANS TAXICAB CO.  
FIRM San Francisco, California

# Fleet cylinder wear only .0002" per 10,000 miles using new RPM SUPREME Motor Oil



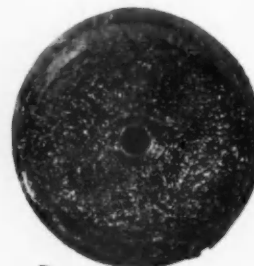
A



B



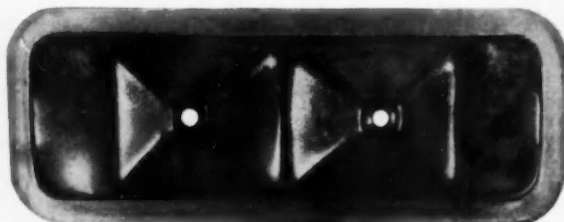
C



D

Using RPM SUPREME Motor Oil for 33,000 stop-start miles of low-temperature driving, engines of Veterans taxicabs showed average cylinder wear rate of only .0002" per 10,000 miles! Note excellent condition of piston A from typical engine using RPM SUPREME—all rings free, no clogging of oil ring

vents. Piston B, from engine using conventional multi-grade oil, collected heavy deposits on rings and skirt. Oil ring vents are 40% clogged. Compare cleanliness of oil screens from these engines: with RPM SUPREME screen C remained clean, with no clogging of mesh. Screen D from other engine is 85% clogged.



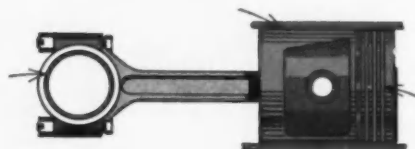
**Outstanding Detergent-Action** advantages of new RPM SUPREME Motor Oil is proved by side cover deposit comparison. Cover at top shows virtually no deposits in 33,000 miles using new RPM SUPREME. At same mileage, heavy sludge coats cover of engine using conventional multi-grade oil.



TRADEMARK "RPM" AND "CHEVRON" DESIGN  
REG. U.S. PAT. OFF.

STANDARD OIL COMPANY OF CALIFORNIA, San Francisco 20  
THE CALIFORNIA OIL COMPANY, Perth Amboy, New Jersey

## New RPM SUPREME Motor Oil halts engine wear



- Exclusive Non-Metallic Polymeric Detergent-Action Compound keeps engines so clean, guards them so well, they last years longer.
- Anti-oxidant resists deterioration of oil and formation of lacquer.
- Engines get SUPREME protection in all seasons, climates, conditions.

For More Information about this or other petroleum products, or the name of your nearest distributor, write or call any of the companies listed below.

STANDARD OIL COMPANY OF TEXAS, El Paso  
THE CALIFORNIA COMPANY, Denver 1, Colorado

# EVER HAVE A ROUGH RIDE LIKE THIS?



## Your drivers have them every day



With a Bostrom "Level-Ride" 80 Seat road shock and vibration are absorbed between the seat and the floor of the cab. You float smoothly over bumps and jolts.

The spine-shattering pounding in the saddle of a bucking bronco is a rest cure compared to the shock-jar-jolt that truck drivers have to take every day.

No wonder they stop for frequent rests! No wonder their ability to drive is impaired! No wonder the danger of accidents is increased—their very life shortened.

A Bostrom "Level-Ride" 80 Suspension Seat is the answer. The driver and seat float over road bumps

and jolts in a straight line without back slap or back rub. Shock and vibration are absorbed between the bottom of the seat and the floor of the cab.

Used today by leading truck fleets . . . factory-installed as optional equipment by all truck manufacturers. Available for use on existing trucks from your truck parts jobber. See your Bostrom Distributor.

**Bostrom Manufacturing Company,**  
133 West Oregon St., Milwaukee 4, Wis.

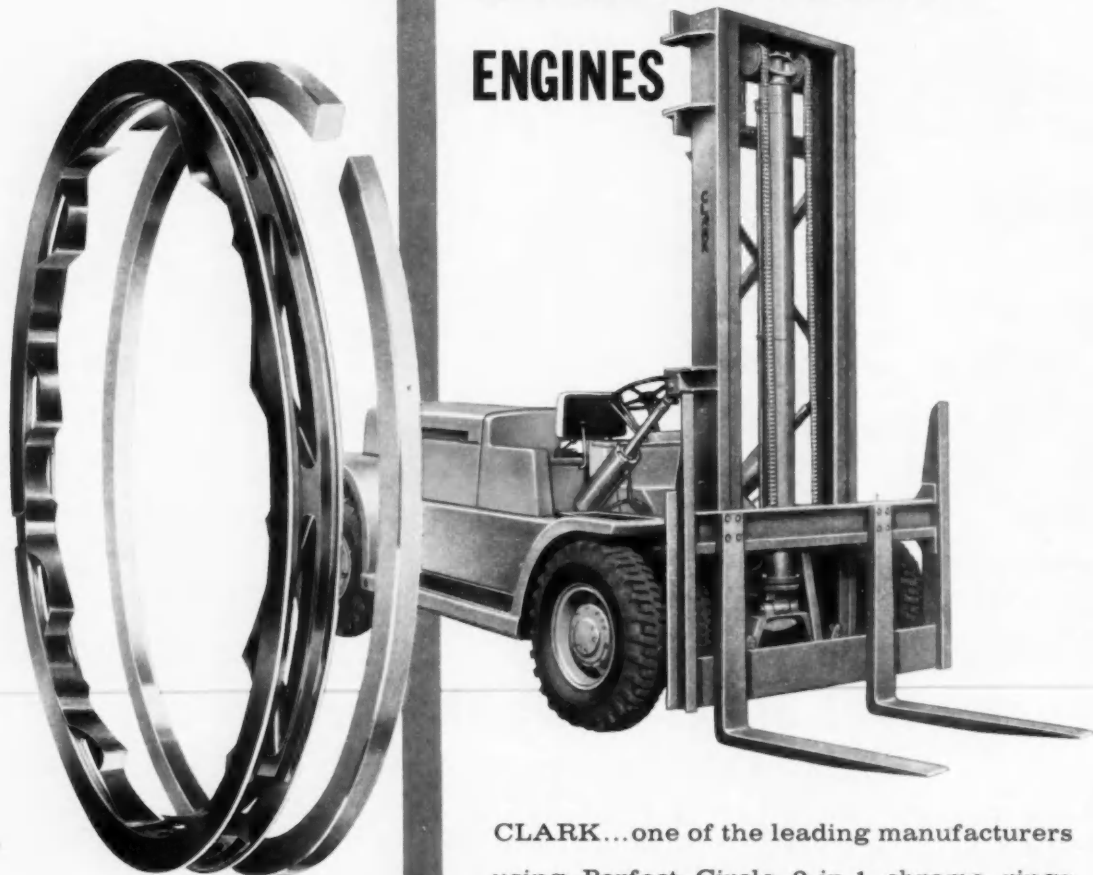


FREE MOTION PICTURE IN SOUND AND COLOR "Gentlemen, Be Seated," an informative motion picture on modern highway travel, is available without charge for showing to groups. Write for booking date.

For  
Best Performance in

**CLARK**

**ENGINES**



CLARK...one of the leading manufacturers  
using Perfect Circle 2-in-1 chrome rings  
for service requirements

**PERFECT CIRCLE**

**2-in-1 CHROME PISTON RINGS...***the standard of comparison*





# UP FRONT WITH

# CCJ

NOVEMBER 1957 FLEET HIGHLIGHTS AS REPORTED BY COMMERCIAL CAR JOURNAL

**MR. EXECUTIVE,** General atmosphere at American Trucking Assns. annual convention last month in Chicago was that of an organized industry—not without its problems—but one that knows where it is going and how to get there. Best summary was given by Interstate Commerce Commission Chairman Owen Clarke at the ATA Board of Directors meeting. In brief, here is how he "inventoried" the trucking industry.

**LEGISLATION:** "Largely through your efforts, several important laws have been enacted which will serve to materially strengthen the motor carrier industry."

**FREIGHT:** "In 1956, motor carriers accounted for a whopping 254 billion ton-miles. . . . an increase over 1955 of 12.2 per cent. This is convincing proof that motor carriage is . . . an indispensable segment of America's expanding economy."

**FINANCE:** Despite increased costs, ". . . your financial condition . . . continues to be generally satisfactory. Increased efficiency of operation, adoption of new technology and techniques and general rate increases have made this possible. Your organized group efforts have also played a major role. . . ."

**RECIPROCITY:** Instead of being blocked by weight limits, reciprocity ". . . now is threatened by . . . taxation. . . ." States have a right to protect their highways, "However, the unfortunate tendency to soak the nearest and most easily reached source of revenue—so often the truck—has little to commend it. . . . I must confess that . . . the situation is, indeed, discouraging."

**ENFORCEMENT:** Two principal enforcement problems for the ICC concern safety and illegal for-hire transportation. "I can assure you that we have every intention of stopping all such operations we find to be illegal. . . . if you will (report) to us flagrant instances of illegal for-hire transportation, (it) will help materially in stamping out the evil."

**SAFETY:** This problem ". . . is an extraordinarily important one." Fatalities in the first four months of 1957 come ". . . to an average of four deaths a day involving carriers subject to ICC regulation." ICC's safety checks show that, "Speaking bluntly, the Commission is confronted with incontrovertible evidence of flagrant and widespread disregard of its safety regulations." If present penalties (increased fines, revocation of operating authority) are not sufficient, ". . . unless safety becomes vastly improved, there may be no alternative to the recommendation of restrictive legislation to protect the public interest. . . . I sincerely hope that this will not be necessary." (For more convention news, see page 303.)

## DETROIT DISPATCH

**REEFER RATING BY TTMA** (Aug., page 33) passed its first milestone last month. First progress report on the project covered lab work as well as road testing of two reefer trailers. Interesting fact observed in the road tests was that underfloor temperature increases 15 to 18 deg when trailer is moving. Experts say this is not due entirely to reflected heat from highway, are checking to see if this is engine exhaust heat. The finding may lead to a demand for more trailer floor insulation.

**WHITE SAYS** all White-made engines will be equipped with Winslow controlled pressure-type full-flow oil filters as standard equipment.

**PASSENGER CAR FLEETS REPORT** almost 20 per cent less tire mileage on 14-in. wheels than on 15-in. wheels, says Sam Lee of Lee Fleet Management, Inc. Averages are 15,000 to 20,000 miles on original equipment tires on 14-in. wheels as compared to 20,000 to 25,000 miles on 15-in. wheels.

**MUD GUARDS ARE** under study by Franklin Institute, Philadelphia. ATA is sponsoring the project, wants to find the most efficient mud guard with the least cost.

**AUTO TRANSPORT TIRE WITH** wire reinforcing is under test. High center of gravity of haulaway trailers causes

## WASHINGTON WATCH

**TRUCKERS WON** their anti-trust law suit against 35 eastern railroads. Said U. S. District Court Judge Thomas J. Clary, in summary, the action of the railroads in carrying on a campaign designed to restrict long haul truck competition without disclosing that the railroads were sponsoring it and paying the bills was a conspiracy in restraint of trade in violation of anti-trust laws (for comment, see page 5, this issue). The decision notes that this is a "new type of conspiracy." As such, the railroads are sure to appeal the decision, on up to the Supreme Court if they can.

**PRIVATE TRUCK** Council of America opposes incorporation of the primary business test for private carriage into the Interstate Commerce Act. Council's Board of Directors says the problem in stopping "buy and sell" transportation is one of policing which a change in the law would not help. Further, any change would probably lead to further legal action as private truck opponents sought "interpretation" of any new clause.

**SAFETY SHOULD** be a concern of the accounting department, says ATA Board Chairman C. J. Williams. Speaking at the ATA Accounting and Finance Council meeting in Milwaukee, Wis., he said accounting statistics should be used to prove unsafe operations financially foolish.

**RISS & CO. MUST** cease and desist violating (1) ICC Safety Regs and (2) state size and weight limits, says the Commission's ruling in Dockets No. MC-C-1413 and MC-C-1783. Dockets are being held open so action to suspend the carrier's operating authority can be initiated if Riss does not comply.

**SAFETY REG** violations resulted in fines for carriers in Ohio, Texas, Nebr., Iowa, Kan., Mo., and Ind. last month. Biggest fine levied was \$1250.

**THIRD SAFETY CHECK** (Oct., page 33), says NAMBO, turned-up at least two buses in such condition that the ICC marked them "out of service." Passengers had to be transferred to other buses.

**TRANSPORTATION TAX DOES** not apply when a house is moved by placing it on skids or rollers and pulling it in stages to its new location, says IRS. Tax does apply when the house is placed on a truck or trailer and carried to its destination.

**INTERCITY PASSENGER**-miles by bus were down 1.3 per cent in 1956 as compared to 1955, reports ICC. In billions of passenger-miles, the total for 1956 comes to 698.8. Biggest slice is private automobile—617.7, next is railroad—28.5, close behind are air—25.5 and bus—25.2. At the bottom is inland waterway—1.9.

heavy stress on outside tires on a curve. Higher speeds and increasing weight adds to problem. Clearance limits preclude use of wider cross section or larger tires, so makers hope to increase tire mileage on these units with wire cord.

**DUAL HEADLAMPS ARE** standard on most 1958 model trucks. In this issue you'll find Dodge (page 50), Ford (page 52), GMC light and mediums (page 54). For construction fleets, most makers are broadening their 4-wheel drive series. Studebaker-Packard will offer it soon as a factory-installed option. It'll be a Timken axle with Hendrickson modifications.

**TRUCK HIGHWAY-USE** taxes topped \$2.1 billion in 1956, says the latest edition of Automobile Manufacturers Assn.'s "Automobile Facts and Figures."

**ATA FOUNDATION RECEIVED** a \$50,000 grant from International Harvester. This is International's fifth annual \$50,000 grant to the trucking industry's educational, research and public information program. Great Dane Trailer is cooperating with the Foundation in \$3300 award program for carrier public relations projects during 1957. Entries should be sent to ATA Foundation, 1424 Sixteenth St., N.W., Washington 6, D. C. Chevrolet also got in the act last month with a full-page, full-color Foundation ad in the Oct. 14 issue of "Life" magazine. It illustrated "all the good things that come by truck."

**EXCISE TAX ON** new vehicles does not apply to vehicles over 102 in. wide, says Internal Revenue Service. Exceptions to this are (1) low-bed trailers regardless of width and (2) vehicles which can be reduced to 102 in. or less without affecting their utility, as for example, by changes in wheel spacers, tires, wheels, clearance lights, etc.

**ALSO THE TAX DOES** not apply to vehicles of any width which have been designed predominately for off-highway use.

## TRUCK TONNAGE

**AUGUST VOLUME** of intercity general truck freight was up 2.5 per cent over Aug., 1956, reports ATA's Research Dept. The 8-month total for 1957 was 0.4 per cent above the first eight months of 1956. Latest figures from the ICC show for-hire and private motor carriers had a 12.2 per cent increase in intercity ton-miles in 1956 as compared to 1955. In billions of ton-miles, the 1956 total was 1360 for all carriers, divided as follows: railroads—656, trucks—254, pipelines—230, inland waterways—220.

Month	% Change from Previous Month	% Change from a Year Ago
July, 1957.....	+ 1.3	+ 7.3
2nd Quarter '57....	.....	- 1.7
June, 1957.....	- 6.6	- 3.9
May, 1957.....	+ 2.7	0.0
April, 1957.....	.....	+ 3.1
1st Quarter '57....	.....	+ 0.7
March, 1957.....	+ 7.5	- 1.8
February, 1957....	- 7.0	- 2.4
January, 1957....	+14.4	+ 3.7
4th Quarter '56....	.....	- 0.2
December, 1956....	-12.2	- 5.6
November, 1956....	-10.2	- 1.4
October, 1956....	+15.7	+ 7.9
3rd Quarter '56....	.....	+ 0.4
September, 1956....	- 6.5	- 6.6
August, 1956.....	+12.7	+ 1.3

## TRUCK AND BUS PRODUCTION

Make	For Weeks Ending			Year to Date	
	Oct. 5	Sept. 28	Sept. 21	1957	1956
Chevrolet.....	3,872	0	255	290,359	269,987
G. M. C.....	97	98	1,008	50,802	70,894
Diamond T.....	99	145	137	4,266	4,951
Divco.....	60	60	60	2,379	2,917
Dodge and Fargo	1,249	766	558	59,885	67,995
Ford.....	1,399	3,950	6,112	264,414	238,443
F. W. D.....	6	41	18	880	1,298
International....	2,358	2,509	2,554	94,472	105,956
Mack.....	345	391	304	13,511	14,284
Reo.....	79	95	118	3,640	3,014
Studebaker.....	180	158	150	7,797	11,406
White.....	264	81	279	11,256	13,798
Willys.....	1,265	656	1,840	47,707	46,902
Other Trucks.....	80	65	65	3,300	5,329
<b>F Total—Trucks.....</b>	<b>11,333</b>	<b>9,897</b>	<b>13,458</b>	<b>824,468</b>	<b>854,262</b>
<b>Buses.....</b>	<b>35</b>	<b>60</b>	<b>60</b>	<b>3,179</b>	<b>3,457</b>
<b>Total—Trucks and Buses....</b>	<b>11,368</b>	<b>9,957</b>	<b>13,508</b>	<b>827,647</b>	<b>857,719</b>

## IN THIS ISSUE

You'll find a complete revision of Commercial Car Journal's exclusive, all-in-one-place **FLEET BUYERS' DIRECTORY**. Covering sources for everything you need in your fleet operation—from Abrasives to Wrist Pins—it begins on page 73.

To make this annual directory even more convenient to use, there's a special directory of products advertised in this issue. It's called **WHO'S GOT WHAT YOU WANT?** and starts on page 69.

An important change has been made this year in the **FLEETMAN'S ASSOCIATION DIRECTORY**. It's been expanded to twice its previous size, includes associations of interest to truck, bus and construction fleetmen. You'll find it at page 141.

# The Road Ahead



**SAFETY CHECK WAS** held middle of last month in northern California. Results will be turned over to a State Senate committee as a guide for possible safety legislation. This is the second "single state" check so far this year. First was in Florida in May (June, page 33). Other states are likely to copy the idea as concern increases about commercial vehicle safety. Emphasis in the California check was on braking, but even muffler noise in decibels was measured by experts. Doing the checking were some 260 federal and state safety officials, California highway patrolmen and trucking industry safety men.

**AUTOMATIC BRAKE APPLICATION CAN** be dangerous on roads made slippery by rain, snow or ice. With winter here, you better warn your drivers to pay careful attention to the lower air pressure warning—buzzer, red light or semaphore—in the cab. Automatic brake application is all-or-nothing. The degree of braking cannot be controlled. Best bet is to stop immediately, find out why air is being lost.

**TRANSIT MEN ARE** working now, laying the ground work for "Traffic Improvement Week"—Dec. 2-6. American Transit Assn. has developed a full kit of materials with ideas for cooperating with local service clubs, newspapers, TV and radio stations. Also included are suggested advertising, tips on securing support of other businesses in promoting alleviation of traffic congestion through use of local transit.

**TRANSPORTATION TAX IS** under fire from U. S. Chamber of Commerce. Regional meetings have been held in the southwest and far west. North Central states are next. Aim is to develop effective evidence that businessmen want the tax repealed.

**"IN THE TRUCK TIRE** field, there is substantial interest in two different designs of wire cord," said B. F. Goodrich Tire Co. President E. F. Tomlinson at last month's annual meeting of the National Tire Dealers & Retreaders Assn. One uses 12 plies or more of nylon plus two wire breaker strips, the other is 2 or 4 plies of wire plus two wire breaker strips.

**GREATER PHILADELPHIA AUTO** Show opens middle of this month with an Elsa Maxwell party. Commercial vehicles as well as passenger cars and accessories will be on display in the city's Convention Hall, Nov. 16-23.

**PRODUCTION TOTALS FOR** August and the first 8 months of 1957 are shown below:

In thousands of units, except bus sales are in actual numbers	New Truck Registrations		Truck Factory Sales—Domestic		Truck Trailer Shipments		Bus Factory Sales—Domestic		Truck and Bus Tires					
									Replacement Shipments		Original Equip. Shipments		Inventory End of August	
	August	8 Months	August	8 Months	August	8 Months	August	8 Months	August	8 Months	August	8 Months		
1957	77.1	578.9	74.2	615.7	4.8	39.1	281	2432	613.4	5716.0	327.7	2880.7	3128.9	
1956	79.8	613.2	68.8	619.8	56.3	47.7	397	2673	619.4	6024.6	349.1	3240.6	3216.9	



*"Private line telephone service makes us  
part of our shippers' production lines"*



—Charles Chilberg, President  
The L. Nelson & Sons Transportation Co.



"WHEN you haul for the textile industry, timing is mighty important," says Charles Chilberg, President of L. Nelson & Sons. "Shipments to the mill can't wait. Production depends heavily on the trucker.

"To insure dependable delivery, we use dependable communications—Bell System private line telephone service. Our Rockville, Conn., dispatcher informs each of seven terminals about loads,

drivers and arrival times of everything we have on the road that day. Any schedule change is cleared through the terminals concerned quickly, personally—by telephone."

. . . . .

*A Bell System representative will gladly explain how private line services can help you serve your own shippers more profitably. Just call your Telephone Company business office. No obligation, of course.*

**BELL TELEPHONE SYSTEM**



PRIVATE LINE TELEPHONE • PRIVATE LINE TELETYPEWRITER • DATA TRANSMISSION SYSTEMS  
CHANNELS FOR: REMOTE METERING AND CONTROL • TELEPHOTOGRAPH • CLOSED CIRCUIT TV

# "We have over 13,000 wheels and we've



**Why Burlington Truck Lines, Inc.,  
of Galesburg, Ill., went tubeless in a big way  
— and is STAYING that way:**

"When you have thousands of wheels on thousands of route-miles, schedules and tire maintenance are man-size problems.

"And," continues Burlington V.P. Yale James, "when your routes cross the prairies and mountains of 8 big states, over every imaginable type of road — those problems can grow into profit-eating giants.

"That's why, when tubeless truck tires first came out, we went for them in a big way.

"The weight-saving angle appealed, of course — but the **BIG PROMISES** for us were new hopes for cutting the cost of roadside tire changes and for reversing the rising expense of tire maintenance.

"Were the promises performed?

"Best answer to that is—we started using tubeless back in 1955 for 600 pieces of new equipment. *And we've kept right ON buying tubeless, order after order — and have 13,000 wheels rolling on tubeless right now!*

"Fact is, we're delighted. Our roadside changes have been cut in **HALF**. Instead of that needless cost and danger, our drivers can often roll right on to our next terminal — and repairs are now so much quicker and easier that

**Buy and  
Specify**

# GOOD YEAR

**MORE TONS ARE HAULED ON GOODYEAR TRUCK T**

COMMERCIAL CAR JOURNAL, November, 1957

# Models on Tubeless Tires— we're ordering more and more!"



Look for this nearby Goodyear dealer sign  
for better tire values—better tire care.

our shop costs, too, are being reduced.

"No tire-life problems either. On our particular operation, we average as much mileage as we got out of tube-type!"

If you still haven't gone tubeless, maybe you've just never tried Goodyear tubeless—with Grip-Seal construction and Triple-Tough 3-T Cord. There's a big difference, you know. Get the facts from your Goodyear dealer—or contact Goodyear, Truck Tire Dept., Akron 16, Ohio.



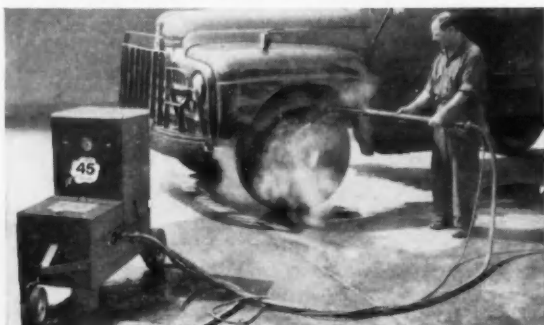
Unless a tire's cord body withstands the HEAT of tough runs—the SHOCK of murderous bumps—the FATIGUE of long, hard service—you won't get the service you're paying for! TRIPLE-TOUGH 3-T Cord is triple-tempered by Goodyear's exclusive "Tension, Temperature and Time" process expressly to lick those 3 great tire-killers—and so delivers more miles, more recaps.

**GOODYEAR** Tubeless or  
Tube-Type  
TRUCK TIRES THAN ON ANY OTHER KIND

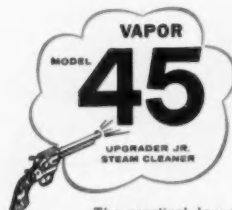
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goes grime!

*the new, fast, low-cost way*



Removes stubborn grime from equipment in seconds.



The practical, low-cost way to clean engine blocks.



**OBSOLETE LARGE, COSTLY MACHINES . . .** does 95% of all steam cleaning jobs!

**One man does it . . .** whisks away grease, debris, dirt, clay and road oil in minutes.

**Lowest initial cost:** simple, compact, no gadgets or delicate controls.

**Lowest operating cost:** uses half the fuel of large units (1½ gallons per hour).

**Top efficiency:** high pressure steam impact penetrates smallest cracks and crevices.

**Choice of mountings:** with or without rubber tire wheels.

Write for  
Bulletin 442

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Chicago 4, Illinois, Dept. 4-K  
Offices in Principal Cities

## DATES and DOINGS

### NOVEMBER

- 14—Delaware Motor Transport Assn., Annual Meeting, DuPont Hotel, Wilmington, Del.
- 14-15—Arkansas Bus & Truck Assn., Annual Meeting, Hotel Marion, Little Rock, Ark.
- 16-23—Philadelphia Automobile Trade Assn., Greater Philadelphia Auto Show, Convention Hall, Philadelphia, Pa.
- 17-18—North Carolina Bus Assn., Annual Convention, Robert E. Lee Hotel, Winston-Salem, N. C.
- 17-19—Virginia Passenger Bus Assn., Annual Meeting, Thomas Jefferson Hotel, Charlottesville, Va.
- 18-21—National Defense Transportation Assn., Annual Meeting, Shoreham Hotel, Washington, D. C.
- 18-21—Air Conditioning & Refrigeration Institute Exposition, International Amphitheatre, Chicago, Ill.
- 18-22—American Assn. of State Highway Officials, Annual Meeting, Conrad Hilton Hotel, Chicago, Ill.
- 21-22—Associated Motor Carriers of Oklahoma, Annual Meeting, Biltmore Hotel, Oklahoma City, Okla.
- 29-Dec. 8—San Francisco International Auto Show (including display of trucks and truck bodies), Cow Palace, San Francisco, Cal.

### DECEMBER

- 1-2—Missouri Bus & Truck Assn., Annual Meeting, Hotel Chase, St. Louis, Mo.
- 2-6—American Transit Assn., "Traffic Improvement Week."
- 3—Nevada Motor Transport Assn., Annual Convention, Thunderbird Hotel, Las Vegas, Nev.
- 4-5—The Asphalt Institute, Annual Meeting, New York Athletic Club, New York, N. Y.
- 9-10—President's Committee for Traffic Safety, Washington, D. C.
- 19—New England Transit Club, Winter Meeting, Statler Hotel, Boston, Mass.

### JANUARY

- 6-10—Highway Research Board, Annual Meeting, Washington, D. C.
- 13-17—Society of Automotive Engineers, Annual Meeting and Engineering Display, Sheraton-Cadillac and Statler Hotels, Detroit, Mich.
- 20-23—American Road Builders Assn., Annual Meeting, Sheraton-Park Hotel, Washington, D. C.
- 26-30—Associated Equipment Distributors, Annual Meeting, Conrad Hilton Hotel, Chicago, Ill.
- 30-31—Private Truck Council of America, Annual Meeting, Sheraton Hotel, Philadelphia, Pa.

### FEBRUARY

- 3-5—Regular Common Carrier Conference, American Trucking Assn., Board of Governors Meeting, Roosevelt Hotel, New Orleans, La.
- 3-6—Annual National Auto Accessories of America Exposition, Navy Pier, Chicago, Ill.
- 10-13—Associated General Contractors of America, Annual Convention, Dallas, Texas.



# Increase Trailer Road Safety with Wagner Air Brake Trailer Kits

...everything you need for easy field installation...

**COMPLETE IN ONE PACKAGE!**



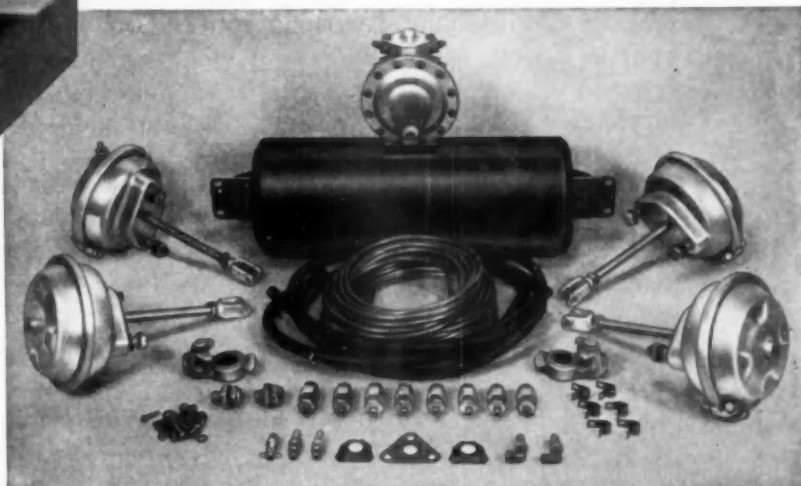
You can make every trailer you operate a safer vehicle by standardizing on Wagner Air Brakes. Available in complete factory-engineered kits, Wagner Air Brakes are easy to install, reduce air brake maintenance cost and increase road safety.

Each Wagner Air Brake Kit contains all parts and connections needed. Time and labor required for installation are kept at a minimum. All parts fit easily into position with little or no drilling or tapping.

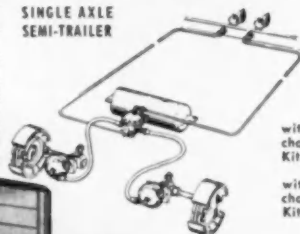
SELECT THE COMPLETE KIT FOR YOUR TRAILER APPLICATIONS

See your Local Wagner Air Brake Representative

Complete Unit Package Wagner Air Brake Trailer Kits are available for single or tandem axle trailers with either type 24 or type 30 chambers. Kits for tandem axle trailers include additional chambers and parts required for these installations.



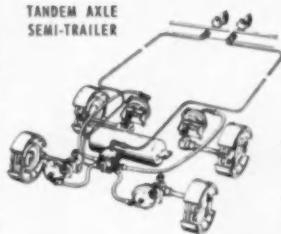
SINGLE AXLE SEMI-TRAILER



with type 24 chambers—  
Kit A 23110

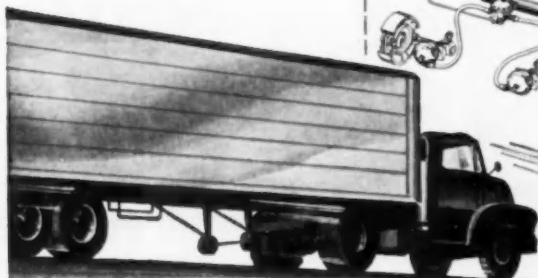
with type 30 chambers—  
Kit A 23111

TANDEM AXLE SEMI-TRAILER



with type 24 chambers—  
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with type 30 chambers—  
Kit A 23113



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# ***The greatest jack values*** **BUILT BY JACK SPECIALISTS... SOLD**

***None built so rugged...  
None priced any lower...  
None so readily available!***

- Blackhawk gives you everything you want in a jack.
- Blackhawk gives you safe, sure, dependable lifting.
- Blackhawk gives you *lifetime service*.
- Blackhawk gives you *easy maintenance* with 68% parts interchangeability.

Blackhawk gives you fast, expert service with its national network of automotive jobbers and warehouses, its world-wide franchised service depot organization.

Yes on every count, Blackhawk gives you the *greatest jack values in history!* Call your automotive jobber today for an interesting Blackhawk "Jack-in-a-Pak" demonstration. He's waiting to serve *you* right now.

**1½-TON Model TC-7**

**3-TON Model BA-8.5**

**5-TON Model AA-8.5**

**8-TON Model CB-9**

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## **MAKE YOUR NEXT JACK BUY**

# in history!...

BY  
JOBBER  
EVERYWHERE...

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## 12-TON D-8.7

Today's most widely used fleet shop model lifts heavy trucks, buses, trailers. Exceptionally wide lifting range for its capacity — from 8½ inches up to 18½ inches!

Only  
**\$28.25**

## 20-TON Model EA-11

\$45.25



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# Fleetman's

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REVIEWING THE BEST IN CURRENT PUBLICATIONS ON MAINTENANCE, EQUIPMENT  
AND SAFETY OF INTEREST TO TRUCK, BUS AND CONSTRUCTION FLEET OPERATORS

As a special service, complete address of each source is included so readers may save time—write directly for copies of the publications reviewed

## Revised Welding Handbook

*from American Welding Society  
33 West 39th St., New York 18, N. Y.*

is the first section of the fourth edition of the Welding Handbook, "Fundamentals of Welding." Just come off the presses, it contains interpretative as well as factual material on basic problems in welding. The 11 chapters contain 560 pages. The Society claims the fourth edition of the Handbook is the most comprehensive work on welding ever published. Price of "Fundamentals" is \$9.

## Size and Weight Limits

*from Truck-Trailer Mfrs. Assn.  
710 Albee Bldg., Washington 5, D. C.*

are listed for every state in "Watch Your Weight!" Included on the chart are maximum allowed height; length for single units, tractor semi-trailers and other combinations; maximum axle load in pounds; tandem axles four feet apart; and maximum gross weight in pounds. It further points out unusual methods of measuring, weighing, and other restrictions on truck use in particular states. Up to two copies are free; three to 10 are 10¢ each; 11 to 49 are 6¢ each; and 50 to 99 are 4¢ each.

## Construction PM Booklet

*from Technical Information Service  
Eutectic Welding Alloys Corp., Flushing 58, N. Y.*

is a 32-page special "Construction Maintenance Issue" of the semi-monthly Technical Information Digest, Form No. TIS 2832. It gives contractors and their welding maintenance staffs case histories of practical weld savings. Particular emphasis is on the repair of cast iron, manganese and carbon steel.

## Shop Instruction Guide

*from Chilton Co. Book Division  
Chestnut and 56th Sts., Philadelphia 39, Pa.*

can be easily adapted for fleet shop training. It covers the problems encountered in organizing class and shop room instruction by maintenance supervisors. Among its offerings are sections on practical procedures for teaching mechanics, tips on making the teaching process easier for both the instructor and the maintenance men, and a section on equipment and supplies. Price is \$1.50 with quantity discounts available.

## Driver Training Film

*from Ford Film Library  
The American Road  
Dearborn, Mich.*

was produced to illustrate five good driving habits that will save lines on the highway. The five points of "The Smith System" are:

- Get the Big Picture
- Aim High in Steering
- Keep Your Eyes Moving
- Make Sure They See You
- Leave Yourself an Out

The film runs 8 min, is 16 mm and in black-and-white with sound. Only expense to the user is return postage to the Ford Film Library. When requesting use of film, write the nearest library. In addition to the address above, they are also at 16 East 52nd St., New York 22, N. Y. and 4303 Telegraph Ave., Oakland 9, Calif.

## Labor Relations Guide

*from Public Relations Dept., American Trucking Assn.  
1424 Sixteenth St., N.W., Washington 6, D. C.*

is the ATA's free 34-page report on "Collective Bargaining in the Trucking Industry." It embodies the policy recommendations of its executive committee. The 26 recommendations cover four phases of collective bargaining divided among group organization, pre-bargaining processes, and post-bargaining processes. The Industrial Relations Committee studied for two and a half years the group bargaining practices in the trucking industry to prepare the guide for use by fleetmen.

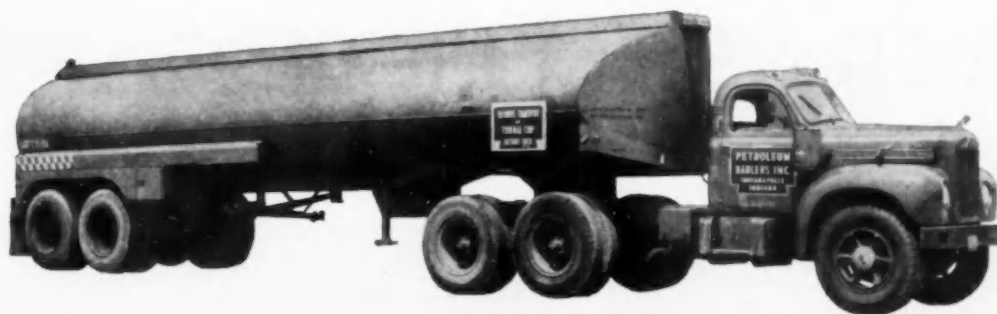
## Battery Training Manual

*from Delco-Remy Division  
Anderson, Ind.*

gives the whole storage battery story needed for training maintenance men on that part of the electrical system. Among its chapters are sections on components, power ratings, design details, chemical action in batteries, measurement and significance of specific gravity, dry charged batteries, effects of voltage and state of charge on charging rates, battery counter electromotive force variations with temperature and state of charge, battery checks and a battery testing chart. It is available at nominal cost.

(FOR RECENT MANUFACTURER'S LITERATURE, SEE PAGE 325)





## 830 more gallons per trip payload increase

When Petroleum Haulers, Inc. replaced their steel transports with lightweight aluminum tankers, they increased their payload from 7,050 to 7,880 gallons per trip and still stayed under the legal load limit. "At the rate of 12 trips per week," says C. C. Bingaman, operations manager, "that amounts to a net payload increase of 517,900 gallons or 73 bonus tankloads a year. We made the change to aluminum tankers about a year and a half ago and we're more than satisfied with the results."



## Alcoa Aluminum Makes the Big Difference



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Your Guide to the Best  
in Aluminum Value



NEW! "ALCOA THEATRE"  
Exciting Adventure  
Alternate Monday Evenings

Petroleum Haulers, Inc. operates aluminum tankers in Indiana and Illinois, built by the Heil Co. of Milwaukee, Wisconsin, fabricators of thousands of aluminum tanks over the past 27 years. The corrosion-resistant Alcoa® Aluminum welding alloy they use provides many advantages not obtainable with other metals. Tank cleaning is easier and risk of contamination eliminated. With the reduction of deadweight, additional savings are made through increased gasoline mileage on return trips. Since aluminum yields under impact instead of puncturing, there's an extra safety advantage in case of accident or collision. Why not send for your free copy of *The Road to Payload Profits* and get all the facts. Write to Aluminum Company of America, 1876-L Alcoa Building, Pittsburgh 19, Pennsylvania.

# ACROSS THE BOARD

For every type of

NEW Mobilube GX

HIGH SPEED  
PROTECTION

HIGH TORQUE  
PROTECTION

You've seen it happen! The ever higher road speeds . . . the ever heavier payloads that put greater strain on today's commercial fleet axles and transmissions.

These increasingly severe operations led to the development of New Mobilube GX—the first commercially available multipurpose-type gear lubricant with a wide enough per-

formance range to protect axle and transmission under the severest operating conditions.

In fact, tests by vehicle manufacturers and users prove conclusively the ability of New Mobilube GX to provide maximum protection to gears and bearings in all services!

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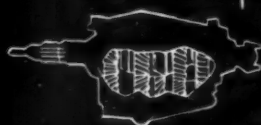
# PROTECTION

drive axle and mechanical transmission

The Multipurpose-Type Gear Lubricant  
with Greatest Performance Range  
in Automotive History



Recommended for all  
Hypoid, Spiral Bevel Gears,  
Double Reduction Axles



Recommended for all  
Mechanical Transmissions  
of Cars, Trucks and Buses



Leader in lubrication for over 91 years



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See your local paper for time and station.

**SOCONY MOBIL** *Correct Lubrication*

A proved program to cut maintenance costs

SOCONY MOBIL OIL COMPANY, INC., and Affiliates: MAGNOLIA PETROLEUM COMPANY, GENERAL PETROLEUM CORPORATION

# 1957 New Truck Registrations

STATE AND MONTH	Brookway	Chevrolet	Diamond T	Dodge	Ford	G.M.C.	International	Mark	Reo	Studebaker	White	Willys Jeep	Willys Truck	All Others	Total
Alabama	Aug. 727	6	51	415	101	147	44	1	3	26	2	1	6	1,532	
8 Mos. 1	4,636	26	358	3,410	1,086	881	337	19	22	201	27	49	94	11,240	
Arizona	Aug. 273	7	39	230	65	3	3	3	3	7	5	12	36	754	
8 Mos. 1	2,149	4	380	1,992	627	460	23	5	57	43	43	111	177	6,071	
Arkansas	Aug. 751	7	77	672	148	234	18	11	3	9	9	9	3	1,942	
8 Mos. 1	3,790	26	451	3,516	931	1,049	69	83	36	29	38	16	10,034		
California	Aug. 2,816	25	433	2,603	452	563	31	12	53	64	72	88	454	7,066	
8 Mos. 1	22,297	203	3,793	22,726	4,155	4,148	212	134	462	451	465	530	3,077	82,974	
Colorado	Aug. 357	2	65	440	86	132	17	4	8	16	34	66	12	1,239	
8 Mos. 1	2,644	18	423	2,704	721	900	91	23	68	56	167	345	116	8,296	
Connecticut	Aug. 183	7	59	160	49	102	23	3	3	28	9	14	38	682	
8 Mos. 13	1,403	46	359	1,379	325	707	186	28	40	176	73	151	226	5,112	
Delaware	Aug. 80	5	19	43	16	22	4	4	12	54	17	21	22	194	
8 Mos. 1	632	35	133	416	160	248	58	4	12	54	17	21	22	1,819	
District of Columbia	Aug. 68	6	48	11	18	14	12	3	5	7	2	2	10	1,602	
8 Mos. 1	658	3	55	423	109	175	39	5	17	13	36	52	84	2,171	
Florida	Aug. 748	6	99	756	121	165	63	5	17	13	36	52	84	2,171	
8 Mos. 1	6,348	63	834	6,194	1,244	1,505	380	89	146	277	205	461	574	18,321	
Georgia	Aug. 777	5	70	857	175	237	50	5	12	22	5	7	9	2,231	
8 Mos. 1	5,722	71	583	5,394	1,339	1,631	249	27	105	220	66	97	96	15,602	
Idaho	Aug. 188	2	42	162	50	88	1	1	13	1	3	20	5	574	
8 Mos. 1	1,351	2	323	1,168	436	529	16	3	82	14	41	215	71	4,251	
Illinois	Aug. 875	48	126	958	172	407	64	1	29	30	14	42	66	1,046	
8 Mos. 1	7,963	289	1,257	7,356	1,735	3,081	385	51	228	370	116	339	495	24,481	
Indiana	Aug. 778	13	147	617	124	293	34	8	33	25	13	15	22	2,122	
8 Mos. 1	4,672	117	983	5,081	1,061	2,292	209	75	321	405	57	142	248	18,884	
Iowa	Aug. 404	7	76	394	44	253	8	1	4	4	4	5	17	1,221	
8 Mos. 1	3,043	96	475	3,203	612	1,606	54	16	73	75	19	70	154	9,486	
Kansas	Aug. 371	5	38	382	63	120	4	3	8	3	3	19	7	1,026	
8 Mos. 1	3,285	34	345	3,274	572	1,000	26	13	91	95	26	103	56	8,922	
Kentucky	Aug. 65	3	48	160	17	2	7	2	15	10	6	10	6	1,421	
8 Mos. 1	3,643	22	487	3,223	944	988	86	19	70	80	78	132	59	9,811	
Louisiana	Aug. 934	3	68	735	109	167	23	3	3	7	8	16	2,074		
8 Mos. 1	6,080	37	556	4,902	914	1,232	133	37	68	76	63	77	90	14,285	
Maine	Aug. 100	5	28	99	35	62	4	1	1	1	8	18	11	367	
8 Mos. 1	978	5	220	972	322	666	71	2	47	37	92	193	77	3,688	
Maryland	Aug. 478	2	41	237	64	145	8	6	4	23	4	6	24	1,046	
8 Mos. 1	2,549	16	499	2,151	452	792	182	49	55	152	29	92	120	7,193	
Massachusetts	Aug. 258	9	97	343	82	126	33	1	36	15	44	50	1,106		
8 Mos. 1	2,114	42	591	2,602	637	1,172	193	19	47	246	116	321	335	8,459	
Michigan	Aug. 750	10	212	840	134	169	19	8	15	23	20	34	50	2,283	
8 Mos. 1	6,834	121	1,675	7,355	1,468	1,382	218	83	117	238	109	304	416	20,340	
Minnesota	Aug. 410	10	79	467	93	282	26	3	14	18	1	12	22	1,435	
8 Mos. 1	3,613	52	679	4,142	713	1,625	70	24	148	92	38	134	156	11,486	
Mississippi	Aug. 606	5	37	471	113	182	3	13	13	1	2	6	1	1,434	
8 Mos. 1	3,778	5	326	3,137	1,091	1,891	71	1	11	16	29	49	33	9,382	
Missouri	Aug. 827	4	74	524	161	282	10	1	1	56	9	7	28	1,974	
8 Mos. 1	6,064	32	605	4,524	1,354	1,705	106	22	112	300	52	63	154	15,093	
Montana	Aug. 192	1	44	207	51	116	6	11	11	11	11	42	22	703	
8 Mos. 1	1,443	4	261	1,285	350	779	46	80	37	71	272	93	4,721		
Nebraska	Aug. 243	3	39	223	51	158	38	1	3	20	7	10	14	810	
8 Mos. 1	2,001	52	218	1,871	425	958	77	4	44	95	45	72	76	8,938	
Nevada	Aug. 785	4	70	592	129	113	7	1	36	1	22	70	62	1,890	
8 Mos. 1	87	2	23	51	21	33	30	4	30	28	45	142	103	2,475	
New Hampshire	Aug. 695	2	161	606	215	361	80	5	11	43	14	26	78	1,099	
8 Mos. 1	492	13	98	476	170	207	60	5	11	43	14	26	78	1,099	
New Jersey	Aug. 5,191	102	1,174	4,015	1,340	1,569	530	44	80	461	88	260	526	15,469	
New Mexico	Aug. 491	7	31	364	98	77	25	1	1	31	15	12	9	1,162	
8 Mos. 1	2,903	13	244	1,748	645	541	74	22	46	71	50	96	45	6,506	
New York	Aug. 913	18	340	1,039	329	738	82	34	94	102	171	3,713	1,366	31,012	
8 Mos. 188	8,598	148	2,783	8,021	2,340	4,109	846	244	221	811	370	965	1,901	14,033	
North Carolina	Aug. 790	3	81	523	167	168	63	4	9	32	10	17	14	1,901	
8 Mos. 1	5,611	53	638	4,295	1,105	1,225	482	13	99	241	69	101	101	14,033	
North Dakota	Aug. 198	1	31	162	38	152	2	6	1	6	1	3	5	598	
Ohio	8 Mos. 1,028	1	204	1,151	213	776	4	23	27	86	27	61	68	3,473	
8 Mos. 1	1,017	30	235	1,344	212	427	61	23	27	86	27	61	68	3,473	
Okahoma	Aug. 7,348	128	1,826	8,789	1,574	3,027	527	138	202	705	156	489	553	25,430	
8 Mos. 1	711	2	42	489	116	187	14	1	6	14	8	9	19	1,629	
Oregon	Aug. 4,323	10	344	3,799	801	1,130	90	33	60	129	35	62	100	10,916	
8 Mos. 1	372	1	76	301	91	159	13	1	5	10	12	25	41	1,107	
Pennsylvania	Aug. 2,989	25	511	2,577	801	1,119	142	35	154	221	95	374	606	9,651	
8 Mos. 14	975	26	235	1,030	280	552	106	10	31	75	34	90	88	3,546	
Rhode Island	Aug. 7,356	127	2,023	7,585	1,861	3,420	936	84	285	647	284	795	376	25,986	
8 Mos. 1	381	5	10	58	22	22	9	4	2	2	2	3	9	536	
South Carolina	Aug. 767	13	103	496	109	199	72	15	2	63	26	20	67	1,973	
8 Mos. 1	321	1	50	298	82	66	9	3	10	2	11	14	14	838	
South Dakota	Aug. 2,615	1	273	2,191	396	452	94	1	28	58	27	48	64	6,238	
8 Mos. 1	135	2	20	147	37	116	5	6	2	10	15	2	497	2,497	
Tennessee	Aug. 968	10	193	1,018	284	858	18	4	26	5	45	107	34	3,990	
8 Mos. 1	590	5	63	510	141	180	27	1	10	188	6	17	15	1,748	
Texas	Aug. 4,077	28	527	3,498	913	1,129	198	7	52	328	33	87	72	10,849	
8 Mos. 1	2,778	13	240	2,350	364	562	79	3	35	62	36	27	31	6,578	
Utah	Aug. 20,176	129	1,662	16,371	2,662	4,275	612	40	251	885	227	287	287	47,848	
8 Mos. 1	184	3	59	179	52	115	4	1	5	7	7	13	21	650	
Vermont	Aug. 1,201	21	247	1,121	305	476	32	8	39	38	31	124	134	3,776	
8 Mos. 1	52	5	13	63	26	32	2	2	31	3	6	19	10	223	
Virginia	Aug. 575	5	117	523	203	296	25	2	31	3	85	161	54	2,084	
8 Mos. 1	731	2	84	513	104	148	26	5	12	15	15	21	19	1,695	
Washington	Aug. 4,346	7	689	3,739	835	1,232	301	32	137	203	102	237	183	12,013	
8 Mos. 1	62	2	62	304	63	8	20	8	13	12	12	36	1	1,025	
West Virginia	Aug. 3,219	55	585	2,734	851	1,000	118	15	107	7	88	69	224	9,514	
8 Mos. 1	326	1	59	240	118	97	7	1	7	14	18	19	13	820	
Wisconsin	Aug. 2,056	12	437	1,915	614	828	80	19	97	89	163	287	82	6,429	
8 Mos. 1	394	2	68	431	86	208	11	1	6	8	8	17	55	1,295	
Wyoming	Aug. 3,301	21	527	3,289	667	1,701	130	25	106	125	48	171	312	10,424	
8 Mos. 1	135	2	30	128	43	59	7	9	6	4	9	35	7	474	
8 Mos. 1	916	6	185	817	300	396	36	3	37	30	48	178	28	2,950	
Total August, 1957	55	27,409	305	4,096	24,442	5,341	8,997	1,171	157	506	1,154	602	1,174	1,794	77,053
Total August, 1956	50	26,451	330	5,182	24,690	7,021	9,727	1,222	237	778	1,133	786	1,174	1,070	79,631
Total 8 Months, 1957	463	200,974	2,332	32,342	185,59										



# FRESH BABIES

97<sup>c</sup> PER POUND

RIDICULOUS YOU SAY? WE AGREE! THERE ARE JUST SOME THINGS YOU CAN'T PUT A PRICE ON, AND

the **Berg** HEAVY DUTY **Breakaway** STOPLIGHT SWITCH

IS ONE OF THEM!



## HERE'S WHY THE **Berg** HEAVY DUTY **Breakaway** STOPLIGHT SWITCH COSTS FAR LESS IN THE LONG RUN

<b>1</b> Berg HEAVY DUTY Breakaway STOPLIGHT SWITCHES CAN BE EASILY SERVICED IN THE FIELD!	<b>5</b> Berg SWITCHES ARE 100% INSPECTED FOR FUNCTION, CALIBRATION AND LEAKS!	<b>9</b> FITTING THREAD SIZE IS FEMALE 1/4" NPT REDUCING POSSIBILITY OF BREAKAGE!
<b>2</b> Berg SWITCHES ARE DESIGNED FOR <u>EXTRA HEAVY DUTY</u> WITH 25 AMP. CAPACITY.	<b>6</b> TERMINALS AND CONTACTS ARE <u>SILVERPLATED</u> TO MINIMIZE CORROSION AND TO REDUCE ELECTRICAL RESISTANCE!	<b>10</b> Berg #3200 HEAVY DUTY STOPLIGHT SWITCHES <u>COMPLY WITH I.C.C. REGULATIONS 193.25(d)</u> .
<b>3</b> CASTINGS ARE MADE OF <u>ANODIZED ALUMINUM!</u>	<b>7</b> ALL SWITCH CONNECTIONS ARE INTERNAL!	<b>11</b> ALL NECESSARY TERMINALS, LUGS AND INSULATORS ARE INCLUDED!
<b>4</b> CONTACTS ARE <u>SOLIDLY EMBEDDED</u> WITHIN THE SWITCH!	<b>8</b> WIRING TERMINALS ARE POSITIVELY IDENTIFIED!	<b>12</b> Berg USES <u>LARGER</u> CONTACT AREAS!

Remember! You must have a SERVICE STOPLIGHT SWITCH TOO . . . Berg HEAVY DUTY Eveready SERVICE STOPLIGHT SWITCH gives you longer life and greater dependability! Rated at 25 amp. continuous duty. Will safely carry up to 8 Stoplight load under sustained operating conditions.



**Berg**



PART NO. 3202.

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# For '58, Dodge Increases GVW

Double rocker shaft V-8 engine for medium tonnage models is introduced

**V** DODGE FOR 1958 has upped GVW and GCW ratings, offers a new double rocker shaft V-8 engine for medium tonnage models. New engine has 314.61 cu in. displacement, develops 207 gross hp at 4400 rpm. It's standard on C600 models, optional on D400, D500, D600, S400, S500, C500 and W500 models.

GVW and GCW increases are as follows:

Model	GVW Increase	GCW Increase
D300	200 lb	....
D400	....	4,000 lb
D500, C500	1,500 lb	2,000 lb
D600, C600	1,000 lb	1,000 lb
D700	2,000 lb	5,000 lb
C700	2,500 lb	5,000 lb
T700	....	10,000 lb
D800	4,000 lb	....
T800	....	5,000 lb

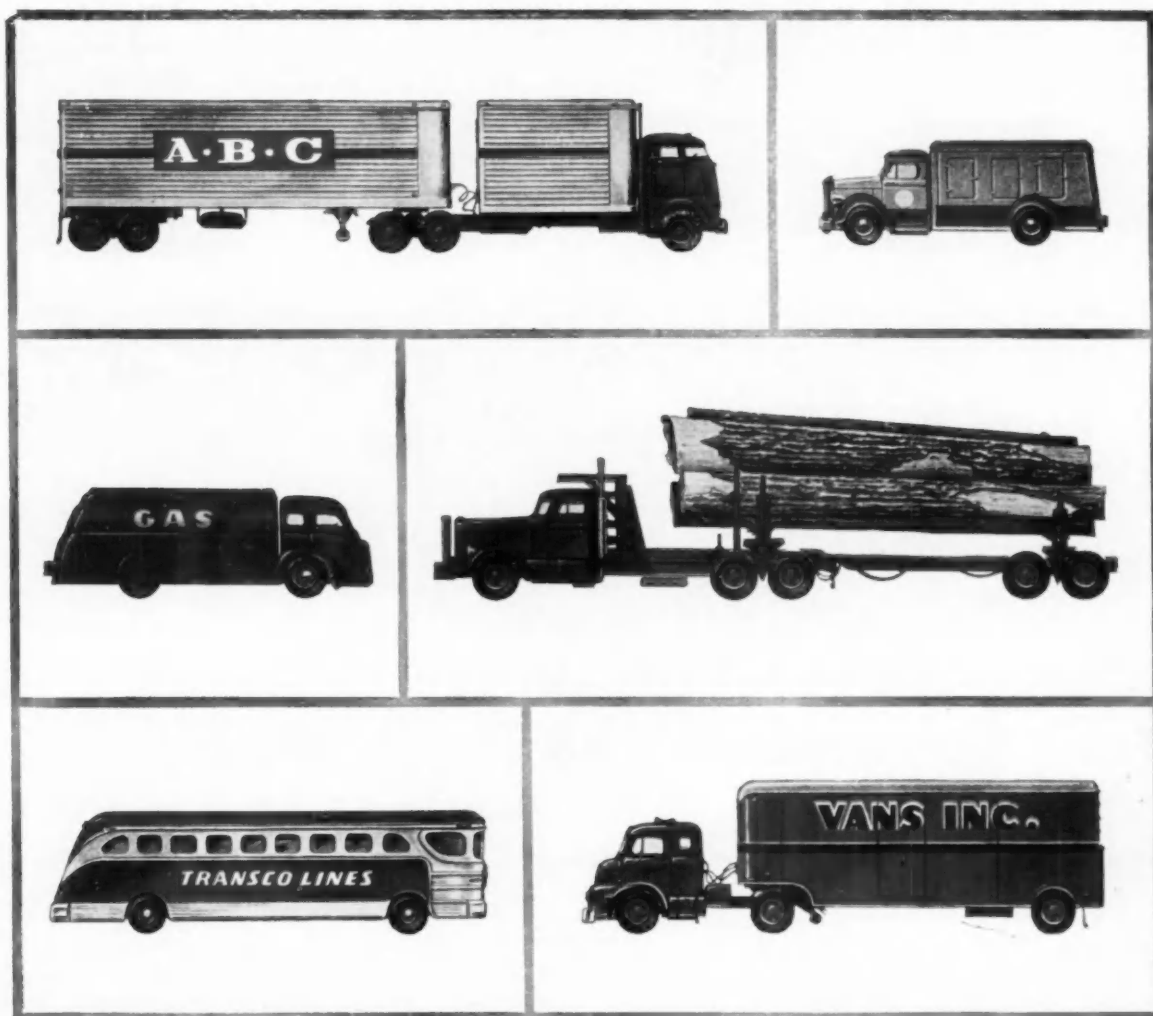
**Improved hydraulic** brakes—with lining area boosted as much as 110 sq in. on some models—are found on all 400 through (TURN TO PAGE 319, PLEASE)

## Dodge 1958 Truck Engine Specifications

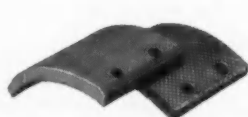
Engine Displacement (cu in.)	Bore & Stroke (in.)	Maximum Gross Hp (@ rpm)	Maximum Gross Torque (lb ft @ rpm)	Compression Ratio
<b>V-8 Models</b>				
314.61 SR <sup>1</sup>	3.63 x 3.80	204 @ 4400	290 @ 2400	8.1 - 1
314.61 HD <sup>2</sup>	3.63 x 3.80	204 @ 4400	290 @ 2400	8.1 - 1
314.61 DR <sup>3</sup>	3.63 x 3.80	207 @ 4400	295 @ 2400	7.6 - 1
354.06 <sup>3</sup>	3.94 x 3.63	218 @ 3900	319 @ 2400	7.5 - 1
354.06 <sup>3</sup>	3.94 x 3.63	224 @ 3900	340 @ 2000	7.5 - 1
354.06 <sup>3, 4</sup>	3.94 x 3.63	234 @ 3900	360 @ 2400	7.5 - 1
<b>6-Cyl Models</b>				
230.2	3.25 x 4.625	120 @ 3500	202 @ 1600	7.9 - 1
250.6	3.437 x 4.5	125 @ 3600	216 @ 1600	7.1 - 1
265.37	3.437 x 4.766	130 @ 3600	228 @ 1600	7.1 - 1
265.37 <sup>4</sup>	3.437 x 4.766	141 @ 3600	233 @ 1600	7.1 - 1

1—single rocker. 2—single rocker, heavy duty. 3—double rocker. 4—twin carburetor.





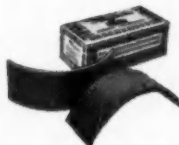
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can help you cut the operating cost-per-mile**



Woven Molded  
Brake Blocks



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PGT Heavy Duty  
Truck Sets



V-Drive & Automatic  
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Full Molded  
Brake Blocks

**Raybestos**  
**AMERICA'S BIGGEST SELLING FRICTION MATERIAL**



**RAYBESTOS DIVISION of Raybestos-Manhattan, Inc., Bridgeport, Conn.**

**RAYBESTOS-MANHATTAN, INC.,** Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hose • Industrial Rubber • Engineered Plastics • Sintered Metal Products • Rubber Covered Equipment • Asbestos Textiles • Laundry Pads and Covers • Mechanical Packings • Abrasive and Diamond Wheels • Industrial Adhesives • Bowling Balls



## Ford Streamlines '58 Truck Models

Dual headlamps are standard for all models, the 272-cu in. V-8 has new power

**F**ORD STYLING in its 1958 model trucks will include dual headlamps as standard on all conventional and tilt-cab models. The 272-cu in. V-8 engine is now rated at 181 gross hp at 4400 rpm. It also comes in a heavy duty version rated at 178 gross hp at 3800 rpm.

After the first of the year, Ford will have available three new engines for models rated at 30,000 lb GVW and up. Displacements will be 410, 477 and 534 cu in.

**Increases in** durability of present engines has been effected by modification of crankshafts, pistons, valves and camshafts. Improved spark control has been achieved through a new carburetor. Engine efficiency is also increased by addition of a new water pump of higher capacity and velocity, modification of the ventilating

system. Six-cylinder economy is increased through modification of the accelerator pump system.

Ford's heavy-duty trucks feature, in addition to engine improvements, new heavier transmissions. Medium weight trucks will offer an optional automatic transmission, featuring improved retarding ability at higher speeds. Ford's pickup truck will incorporate the Styleside box, which matches the cab in width and offers 25 per cent more payload capacity.

**In the heavier** series, a wide selection of fuel tanks, increasing capacity to 120 gal, is offered on an optional basis. The new tanks incorporate electric fuel pumps to increase efficiency and greatly minimize vapor-lock condition. New heavier front axles are also offered as options.

A high capacity rear tandem axle is offered as an option on the T700 series. It gives a GVW rating of 32,000 lb to this model.

A new 40 amp generator has been incorporated on the 750, 800 and 900 series trucks.

The new truck line also offers new triple drive range automatic

(TURN TO PAGE 321, PLEASE)

### Ford 1958 Truck Engine Specifications

Engine Displacement (cu in.)	Cyl	Hp (@ rpm)		Torque (lb ft @ rpm)	
		Gross	Net	Gross	Net
223	6	139 @ 4200	126 @ 4000	208 @ 2000-2600	196 @ 1800-2500
272	V-8	181 @ 4400	153 @ 4100	262 @ 2200-2700	249 @ 1900-2400
272HD	V-8	178 @ 3800	149 @ 3600	280 @ 2100-2900	249 @ 1900-2600
302HD	V-8	198 @ 3800	172 @ 3600	299 @ 2500	279 @ 2300
332HD	V-8	212 @ 3800	187 @ 3600	328 @ 2500	306 @ 2300



300%  
THE 2

MORE RESISTANCE TO OVERCHARGE\*  
GREATER RESISTANCE TO UNDERCHARGE\*

PRIME CAUSES OF BATTERY FAILURE

WITH  
NEW



National

Rugged heavy-duty batteries built for severe service—transcontinental runs or start-and-stop city work. Look at these features:

- *thicker plates, heavier plates—for faster surer starting in any weather*
- *tougher hard-rubber containers—resist acid, heat, cracking*
- *double glass-plus-rubber insulation—prevent plate-oxide shedding*
- *element protectors—reduce damage from careless servicing*
- *National Deepwells—like a camel this National battery goes months without water*

**See how** these new National silver cobalt batteries can save you money — see your National dealer or write

**GOULD-NATIONAL  
BATTERIES, INC.**  
SAINT PAUL 1, MINNESOTA

\*Overcharge and undercharge are the two worst battery killers, accounting for  $\frac{1}{5}$ ths of all battery failures! New National batteries withstand these killers better—have triple resistance to overcharging, greater resistance to undercharging, compared to SAE minimums.

**Silver Cobalt**  
SEALED CHARGE  
TRUCK — BUS — DIESEL  
BATTERIES

WITH THE

**SILVER LINING**

HERE'S THE STORY OF  
THE SILVER LINING

Corrosion eats away battery grid material just like rust eats away bare steel. Coated steel lasts indefinitely because it doesn't rust. Similarly silver cobalt coats the battery grids, protecting them from corrosion. The grids last longer—the battery performs better.



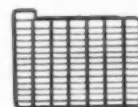
Bare unprotected  
steel rusts



Coated steel  
resists rust



Unprotected battery  
grids corrode



Silver cobalt grids  
resist corrosion



Emphasis is on styling in this two-and-a-half ton stake truck. Dual headlamps are standard, as on all GMC models

## Four Engines Power GMC Light and Medium Trucks in '58

New 336 cu. in. V-8 engine develops 286 net lb ft of torque at 2400 rpm

### GMC 1958 Light & Medium Duty Truck Engine Specifications

Engine Displacement (cu in.)	Cyl	Hp (@ rpm)		Torque (lb ft @ rpm)	
		Gross	Net	Gross	Net
270A	6	130 @ 3600	121 @ 3400	238 @ 1200-2000	233 @ 1200
270B	6	140 @ 3600	127 @ 3400	246 @ 1400-2000	241 @ 1400
336	V-8	200 @ 4400	171 @ 3600	307 @ 2000-2400	286 @ 2400

**V** GMC'S LIGHT and medium duty truck models for 1958 feature a new package delivery model with 16,000 lb GVW rating, the Allison Torqmatic automatic transmission, a new 336 cu in. V-8 engine. The engine develops 200 gross hp at 4400 rpm.

The 336 engine—available in all models up through the 500 series—has a unit-cast cylinder block and upper crankcase of nickel chromium alloy cast iron for long wear and proper hardness. Full-length water jackets completely surround each cylinder for proper cooling, and the 64½-lb crankshaft is drop-forged from heat-treated steel. Tin-plated, cam-ground aluminum pistons combine light weight, fast heat conductivity and controlled expansion without permitting excessive inertia loads.

(TURN TO PAGE 313, PLEASE)



New 336 cu in. V-8 engine is offered for light and heavy duty

# N·A·P·A

# "Parade of Parts"

Brings to Fleet Operators  
The Finest and Most Comprehensive  
Group of Nationally Advertised  
Parts and Supplies Ever  
Available from One Friendly,  
Cooperative Source—

## THE N·A·P·A JOBBER

● The Nationally advertised parts and supplies which bear the N·A·P·A Seal are all produced by leading manufacturers in their fields. They are recognized by automotive engineers as meeting the highest standards of quality. Many of them, as you will note when you visit *your* N·A·P·A Jobber, are used as original equipment on the vehicles you operate.

As part of the nation's largest independent parts organization, with 45 strategically located warehouses, your N·A·P·A Jobber has the advantage of complete master stocks, of all of these lines, within overnight shipping distance or less. There is no waiting for shipment from distant factories. There is *only one place* you have to go, or call, to get what you need—your N·A·P·A Jobber.



During October and November, your N·A·P·A Jobber is joining with thousands of others in the nation-wide "Parade of Parts" to spotlight the service and supply advantages which you can receive only through your N·A·P·A Jobber backed by this organized system of warehouse distribution.

Visit your N·A·P·A Jobber during the "Parade of Parts." Learn first-hand about the products and service he has to offer you. It is a service which will save you time, and needless expense—and give you complete assurance of quality—when you concentrate your buying with him.

*Your N·A·P·A Jobber is a Good Man to KNOW!*

National Automotive Parts Association, Detroit, in behalf of the thousands of independent

# N·A·P·A JOBBERS

who supply the automotive repair trade from coast-to-coast with these—and many other—nationally advertised brands of quality automotive parts and supplies.

# Mack Unveils Intercity Bus

Air suspension, turbocharged diesel engine offered in 41-seat model



**AIR SUSPENSION**, turbocharged diesel engine, built-in power steering, and welded tubular-frame body construction are among the features of Mack's new offering to the intercity bus market. The 41-passenger vehicle will be produced at the Sidney, Ohio plant of Mack Trucks, Inc.

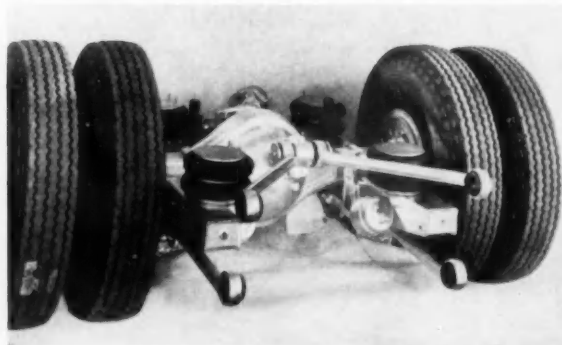
It is 35 ft long and 96 in. wide overall, will be known as Model No. 9700.

**Structure of the integral-type** body is made up of arc-welded high-tensile steel tubular framing, with continuous posts and carlines from skirt rail to skirt rail, in combination with aluminum exterior paneling. Exterior panels are riveted to the 1¼-in. tubular steel posts and carlines with blind-type rivets, for ease of replacement.

Side and front panels are fluted, anodized aluminum. Roof panels are of smooth aluminum sheet. Contact areas between steel and aluminum pieces are separated by cloth-backed tape to inhibit squeaking and electrolytic action.

**The engine, suspended** transversely at rear of bus, is a Mack Thermodyne turbocharged diesel, Model No. ENDLT-673, 6-cyl. (TURN TO PAGE 323, PLEASE)

**Four air suspension bellows** are mounted on the end of cantilever beams, much like conventional leaf springs





# NOW!

## LIGHTER, STRONGER, BETTER! —

### the 1958

# SHULER

## One-Piece Tubular Trailer

# AXLE



Now Shuler brings you the finest trailer axle *ever* — a new light-weight axle of 18,000 lbs. capacity that retains all the famous Shuler *one-piece* advantages of the past, plus many NEW features.

- 1 Improved upsetting and forging process insures the strongest and lightest axle center that can be produced.
- 2 New light-weight fabricated steel brake shoes —ultra light, ultra strong—with tapered block lining riveted on.
- 3 New light-weight reinforced drums and light-weight forged steel hubs save still more weight.
- 4 New spring-loaded Neoprene wheel bearing grease retainer—Neoprene cam-shaft support grease seals.
- 5 Spider is bolted on—not welded—to permit replacement in the field.
- 6 One-piece forged cam-shafts, coined and hardened.
- 7 Extra-large anchor pins and bushings, and hardened cam rollers and roller shafts, for longer life, better service.

Yes, the 1958 Shuler trailer axles are without doubt the finest 18,000-lb. axles you can buy, yet *they cost no more*. Write today for new engineering bulletin giving full details. Address:

**SHULER AXLE COMPANY, Incorporated, LOUISVILLE, KENTUCKY**

Subsidiary of Fuller Manufacturing Company

SALES OFFICES: CHICAGO, DETROIT, PHILADELPHIA, OAKLAND AND TULSA

WEST COAST WAREHOUSE  
Oakland, California

SOUTHWEST WAREHOUSE  
Fort Worth, Texas

## Brockway Introduces . . .

### 1. Short Tractors



### 2. Oil Field Rigs



**B**ROCKWAY MOTOR Trucks Division, Mack Trucks, Inc., Cortland, N. Y., recently released details on two new truck models—a short bumper-to-back-of-cab tractor and an off-highway oil field rig.

Tractor has a 137½-in. wheelbase and a CA (back-of-cab-to-centerline-of-rear-axle) dimension of 69 in. BA dimension (bumper-to-centerline-of-front-axle) is 27½ in. Brockway says it can be used with a 35-ft trailer, still be within an overall combination length of 45 ft. GTW ratings go as high as 65,000 lb.

#### Tractors in this "Shorty"

series can be gasoline, LP gas or diesel engine-powered. Turbocharged diesels are also offered. Unit mounted transmission options include 4, 5, 8 and 10-speeds forward. Optional manual or power range control is offered with the 8 and 10-speed units. Single-speed spiral bevel, two-speed and double reduction rear axles are offered in several ratios.

Engine accessibility is through swing-away front fenders. Dry-type air cleaner mounting permits breathing from either inside or outside engine compartment.

#### The off-highway oil field

rigs are diesel-powered, have 5-speed forward transmission with a 3-speed auxiliary plus a top-mounted power takeoff for winch drive. Rear axle bogie has 50,000-lb rating, features interaxle differential and lock-out. Front axle is rated at 18,000 lb.

Main frame is double channel, chrome manganese, heat treated steel. Each channel has 5/16-in. thickness plus outside plate of 5/16-in. thickness. Over the bogie section, a 3-in. inverted flange runs from rear of frame to meet outside plate. This provides a flange width in excess of 6 in. in this area.



## International Has Three New Short BBC Tractors

**T**HREE NEW diesel truck-tractor models with short BBC (bumper-to-back-of-cab) dimension—90 in. to rear top of cab, 91½ in. to farthest point at back of cab—have been introduced for heavy-duty highway hauling by the motor truck division of International Harvester Co.

They are the 4-wheel Model No. AC-225-D with 30,000 lb GVW rating and GCW rating of 68,000 or 76,000 lb depending upon rear axle and transmission specifications, and the 6-wheel ACF-195-D and ACF-205-D models, both with 40,000 lb GVW rating and GCW rating of 70,000 lb. Each offers a selection of diesel power plants in the 175 to 220-hp range.

#### Use of 35-ft square front

trailers in states with 45-ft overall length limitations is possible, as is the use of 40-ft trailers, where permitted, in states with 50-ft overall length limitations.

When a trailer is in jackknife position, with the corner at its closest point to the cab (91½ in. BBC), there is additional clearance at the top of the cab (90 in. BBC), allowing for tilt between tractor and trailer without "cornering" the cab where the units are close coupled or where terrain is not level.

#### Model No. AC-225-D is

available in four wheelbases. These together with CA dimensions (back-of-cab-to-centerline-of-rear-axle) are: 134-in. WB with 68 9/16-in. CA, 140-in. WB with 74 9/16-in. CA, 143-in. WB, with 77 9/16-in. CA, and 158-in. WB with 92 9/16-in. CA. Bumper-to-centerline-of-front-axle (BA) dimension is only 26 3/16 in.

The two 6-wheel models, ACF-195-D and ACF-205-D, also are available in four wheelbases. These, with CA dimensions are: 147 7/16-in. WB with 82-in. CA, 153 7/16-in. WB with 88-in. CA, 161 7/16-in. WB with 96-in. CA, and 167 7/16-in. WB with 102-in. CA. BA dimension is also 26 3/16 in.

Accessibility to the engine for servicing is provided by the enlarged cowl opening over the engine. This is augmented by (1) the engine tunnel's removable cover with quick-release latches, (2) a removable panel next to the instrument cluster permitting easier access to rocker arm covers or cylinder heads, and (3) the direct access to the fuel pump via a plate on the cab floor.

# NOW!

## ONE SOURCE FOR ALL YOUR LUBRICATION GUNS

"LITTLE LUBE" Presents...

### UNIVERSAL'S 8 Versatile "Easy Grip" Units

★ Provides necessary power for fast, efficient lubrication service



#### 12,000 Pound GREASE GUN

This gun will build up a pressure of 12,000 pounds when needed. Swivel couplers, when applied to the grease fitting, will lock tightly, and a mere left or right wrist motion will easily disengage the coupler from the fitting collar.



#### SPRING PRIMED LEVER GUN

This hand gun builds up a pressure of 10,000 pounds. The barrel holds 15 oz. of grease; also it is adapted to cartridge grease loading or self filling. This gun comes with a hydraulic coupler and a fitting for filling. Adapters for any types of fittings are also available.



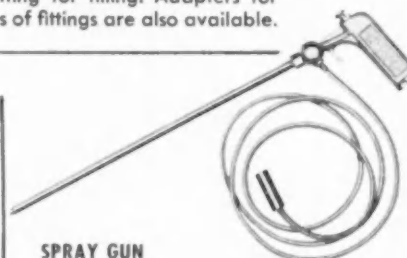
#### SUCTION GUN

This gun, ruggedly constructed, has many purposes, such as draining and filling of wet clutches, transmissions, differentials, and any place where a fluid lubricant is required. A knurled barrel and tilted handle assure a perfect gripping for hand fit.



#### PISTOL OILER

This controlled flow oiler can give a drip or steady stream for lubrication. Ruggedly constructed, it is completely leakproof, and more important, all parts are replaceable.



#### SPRAY GUN

This Universal Spray Gun is designed to give you a simple, efficient, and more important, more economical means of cleaning engines and other equipment. It is equipped with a six foot synthetic rubber feed tube, weighted for immersion in your cleaning solution. It will also spray light paints and insecticides.



#### BENCH TYPE OILER

This unit has a 14 oz. lubricant capacity, completely leakproof, and extremely easy to dismantle and clean. Even under heavy duty service, this unit will give a continuous oil flow.



#### PUSH TYPE GREASE GUN

With a little pressure from the palm of the hand this 4 oz. capacity gun can efficiently lubricate any hard to reach fitting. This handy Grease Gun is easy to operate and load, fits the hand comfortably.



#### AIR BLOW GUN

This gun, a handy tool for industry or service station, is light in body, of high strength materials to withstand abuse. Full hand pistol grip assures complete mobile effectiveness on your job.

Write for "NEW" catalog

## UNIVERSAL LUBRICATING SYSTEMS, INC.

642 Allegheny Ave., Oakmont, Pennsylvania

# CCJ BULLETIN BOARD



## A Life In Your Hands

Are you a potential murderer?

Maybe you are! Recent spot checks by Interstate Commerce Commission safety inspectors turned up a frightening percentage of rigs with faulty brakes. Main problems were defective hose and worn diaphragms. Most of the defects could, and should, have been spotted by fleet mechanics.

Sure, your drivers should check their own rigs. But if brake maintenance is your job, the real responsibility for the safety of the equipment and the driver's life is in your hands.

If you send your drivers out with defective brakes . . .

If you repair worn hose with friction tape and a prayer . . .

If you turn hose with a worn spot to wear at another spot . . .

If you fail to check diaphragms carefully to detect wear . . .

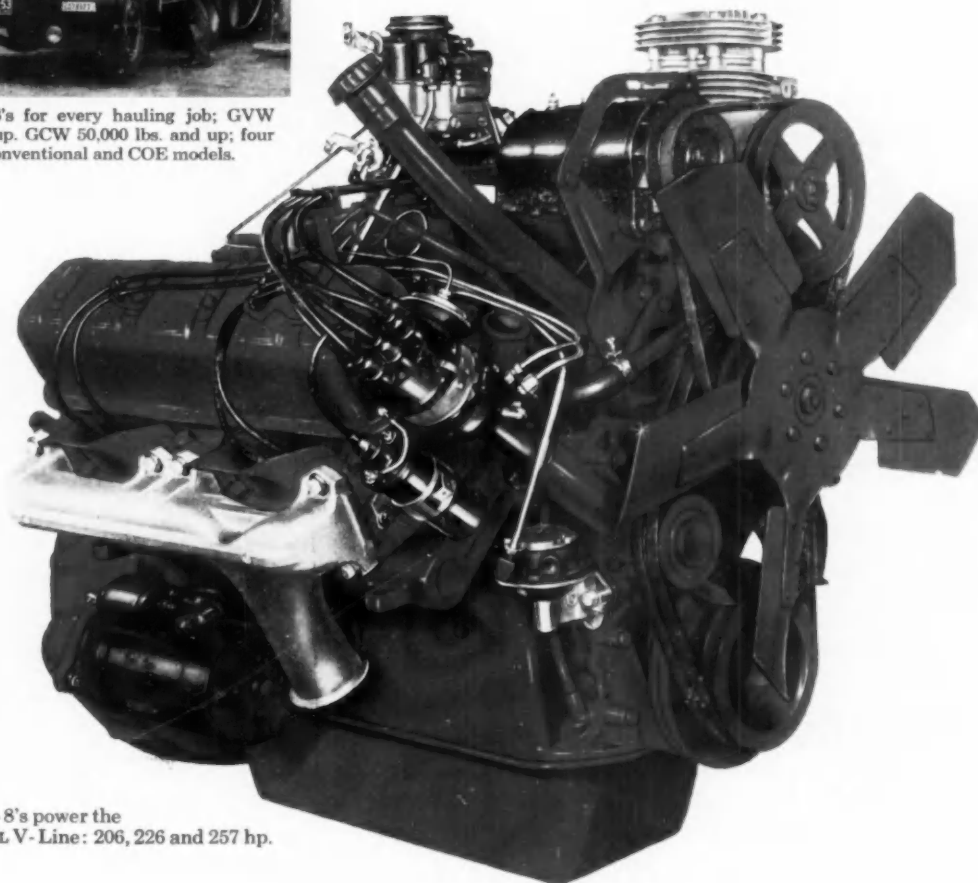
You are a potential murderer.





Heavy-duty V-8's for every hauling job; GVW 24,000 lbs. and up. GCW 50,000 lbs. and up; four and six-wheel; conventional and COE models.

*Most GO under  
any truck hood!*



Three great V-8's power the  
INTERNATIONAL V-Line: 206, 226 and 257 hp.

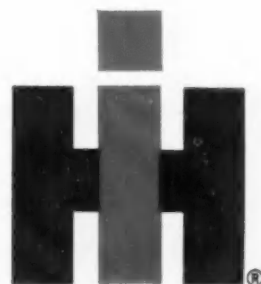
## INTERNATIONAL HEAVY-DUTY V-8's

Introduced last year—and smashing performance records ever since—INTERNATIONAL Heavy-Duty V-8's give you the most productive V-8 power in any truck.

*Make more trips on short hauls! Save more time on long hauls! Faster acceleration, higher sustained speeds with far less*

*shifting. More ton-miles per gallon, too!*

INTERNATIONAL V-8's make more money for their users because they do what other trucks cannot. Get the facts today from your nearby INTERNATIONAL Truck Dealer or Branch. International Harvester Company, Chicago, Illinois.



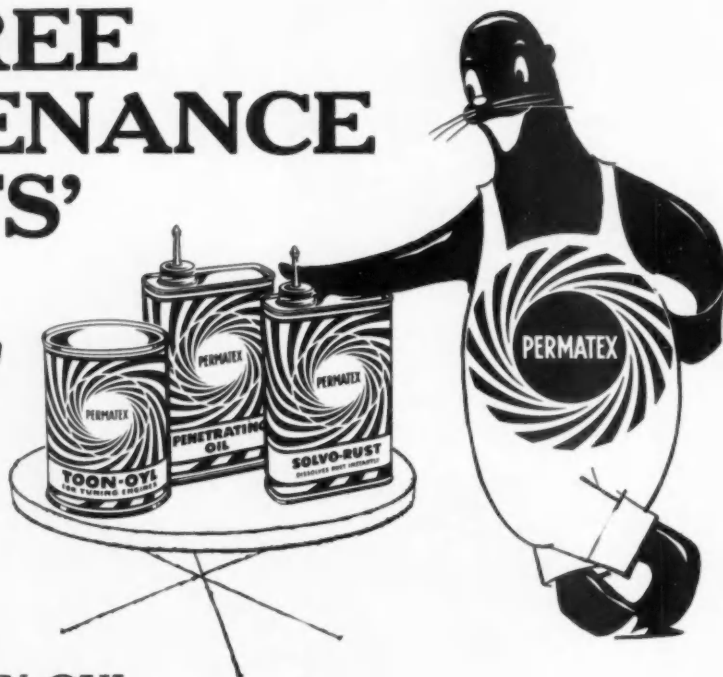
Motor Trucks, Crawler Tractors,  
Construction Equipment,  
McCormick® Farm Equipment  
and Farmall® Tractors

Fleet cost records prove

**INTERNATIONAL TRUCKS** cost least to own!

# THREE MAINTENANCE 'MUSTS'

**...to put a car in  
top operating  
condition—  
and keep  
it there!**



## PERMATEX TOON-OYL

crankcase additive gives a three-way chemical tune-up while driving:

- removes carbon, gum and varnish — frees sticky valves and allows smoother piston function.
- prevents corrosion — safe even for cadmium-silver and copper-lead bearings.
- reduces friction — plates all moving parts with a tough film of oil that prevents scored cylinders and burnt bearings.

## PERMATEX PENETRATING OIL

inhibits rust and lubricates where regular oils are too heavy to penetrate. Unaffected by water. Perfect for springs and between other surfaces with close tolerances.

## PERMATEX SOLVO-RUST

frees "frozen" parts. Dissolves rust, gum, scale, paint, varnish and carbon binder. Safe for use on all metals. Contains no harmful ether or kerosene.

**Get Longer Life for Customers' Cars — and Higher Profits for Yourself  
Order from Your Jobber Today!**



## PERMATEX COMPANY, INC.

GENERAL OFFICES: HUNTINGTON STATION, N. Y.

FACTORIES: BROOKLYN 35, N. Y. KANSAS CITY 15, KAN.

**SIMPLIFY...EXPEDITE  
YOUR AIR BRAKE JOBS**



# **Stock WEATHERHEAD AIR BRAKE FITTINGS**

**IN THIS HANDY--YEARS AHEAD  
STOCKING CABINET . . .**



# **FREE**

**With Your Initial Order of  
Fast-Moving Weatherhead Air  
Brake Fittings Assortment**

Sturdy steel cabinets with clear plastic drawers and easy-to-read plastic labels. Speeds parts identification, accessibility and stock checkup. Choice of stocks with free cabinet to meet your specific needs.

## **AB-64 MERCHANDISER**

For Fleets, Car Dealers  
and Large Service Shops

## **AB-20 MERCHANDISER**

For Independent Repair  
Shops, Service Stations

## **WEATHERHEAD AIR BRAKE FITTINGS, HOSE AND HOSE ENDS**

Your nearby Weatherhead distributor will supply you with your copy of the new Weatherhead brake fittings catalog. The line is complete and is interchangeable with any other standard replacement part. It pays to use Weatherhead—the original equipment line.



# **WEATHERHEAD**

**THE WEATHERHEAD CO., FORT WAYNE DIVISION**  
Dept. C-11, 128 West Washington Blvd., Fort Wayne, Indiana

*In Canada: The Weatherhead Co., Ltd., St. Thomas, Ontario*



A single drop of used oil from this truck indicates true condition of the vehicle's oil . . . and tells a lot about the engine's operation.



Daily oil checks assure maximum lubrication efficiency in this diesel locomotive.

## Now—they're testing used oil in minutes

THE NEED for a fast, accurate and practical method for determining the condition of used oil has long been one of the more serious problems confronting fleet operators. It's obviously wasteful to discard still-good oil, but operating a vehicle with contaminated oil could lead to costly engine damage. This was an unsolvable condition which maintenance men had come to accept.

Since no two vehicles, even of the same make and model, are identical in performance or operation, maintenance men were compelled to compromise on oil change "averages" recommended by engine manufacturers. This procedure is uncertain and costly. Fortunately, this operating conflict has been resolved with the introduction of a simple but completely reliable oil check system . . . the Shell ADC Oilprint Analysis.

The ADC Analysis was primarily conceived to determine proper oil change intervals for individual engines. However, it goes much further. It is capable of actually reducing engine maintenance costs by disclosing certain mechanical defects *before* they have caused serious engine damage.

The test procedure is very simple . . . requires little

practice to perfect . . . and provides a reliable check of oil from merely two drops of used oil. In minutes, the degree of Alkalinity, Dispersancy and Contamination can be determined easily.

Here are several typical examples from various areas of the country. They show how fleet operators, employing both diesel and gasoline engines, have successfully and profitably applied the ADC program.

### A Kansas City Freight Line

Operating a large fleet of trucks, one Kansas City freight line previously had drained and replaced oil every 3,000 miles. After adopting the ADC Oilprint Analysis, individual test charts showed that, in most cases, drainage would not be necessary at less than 6,000-mile intervals. Even at this doubled interval, engine life was not affected. Further proof was established when these engines were inspected at 87,000 miles and no appreciable wear was found on bearings, pistons, rings or valves.

### An Idaho Logging Operation

Oil had previously been drained after a limited number of hours of use on an Idaho company's diesel locomotive.



Substantive cause oil

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Shell  
adv





Substantial oil economy is realized in this tractor, because oil is changed only when indicated by the Oilprint.



Taking a quick "fingerprint" of crankcase oil from an interstate carrier.

tives. With the ADC Oilprint Analysis as a guide, the oil-change interval has now been safely increased many-fold. The savings made possible by this on-the-spot test in oil, filter change and labor costs were considerable. Furthermore, leaky head gaskets are frequently discovered before any serious engine trouble develops. Here is another valuable plus for the ADC Oilprint Analysis.

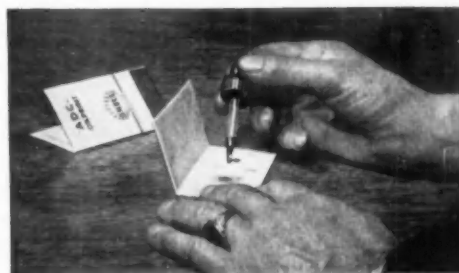
#### A Washington, D.C., Transit Company

This transit company operates a large fleet of buses with both gasoline and diesel engines in use. With the difference in operating schedules . . . rush hours, short and long hauls, around-the-clock schedules . . . both engine types were believed to require complete oil changes every 2,000 miles. When the ADC program was instituted, the tests showed that oil-drain periods and minor maintenance checks could be safely extended to every 3,000 miles for gasoline engines and 4,000 miles for diesel engines.

Fleet operators, who are concerned with extending the service of crankcase oil and avoiding the risk of using contaminated oil, are invited to sit in while a Shell service engineer demonstrates the time-and-money advantages of an ADC Oilprint Analysis program.



Photo shows an oil-spot test card . . . one phase in the visual life record of a change of oil.



One drop of a special indicator\* fluid developed by Shell checks the alkaline reserve in the oil.

\*Indicator Fluid U.S. Patent No. 2,770,530

## SHELL OIL COMPANY

50 WEST 50TH STREET, NEW YORK 20, NEW YORK  
100 BUSH STREET, SAN FRANCISCO 6, CALIFORNIA



# Laugh it off!

*Buxom Babe:* "What are those marks on your nose?"

*Diesel Mechanic:* "Oh, them? They were made by glasses."

*Buxom Babe:* "Why don't you use contact lenses?"

*Diesel Mechanic:* "They don't hold enough beer!"

CCJ

*CARBURETOR SPECIALIST:* "THERE'S ONE GOOD THING ABOUT BEING MARRIED TO A BEAUTIFUL, BUXOM GIRL LIKE MY WIFE. IT MAKES IT VERY EASY TO FIND THE KEYHOLE WHEN I COME HOME DRUNK."

*SHOP FOREMAN:* "HOW COME?"

*CARBURETOR SPECIALIST:* "BECAUSE THERE'S ALWAYS SOME JOKER PEEPIING THROUGH IT."

CCJ

*Distraught Wifey:* Dear, our new maid has burned the bacon and eggs. Would you be satisfied with a couple of kisses for breakfast?"

*Maintenance Superintendent:* "Sure!" Bring her in and get the heck out of here."

CCJ

*Shop Foreman:* "Not a day passes but what my wife shows her incompatibility."

*Brake Specialist:* "Yeah, ain't it a crime the way women dress these days."

CCJ

*Sales Agent:* "Sir, I have something here which will make you popular, make your life happier and bring you a host of friends."

*Truck Mechanic:* "I'll take two fifths."

*Steno Flo:* "I'm bored with marriage. Elmer hasn't kissed me since my honeymoon."

*Steno Jo:* "You ought to divorce him."

*Steno Flo:* "I can't. Elmer isn't my husband."

CCJ

*Diner Waitress:* Oh, I'm terribly upset. There's a fight going on down at the other end of the counter.

*Freight Truck Driver:* "No need to be afraid gal. When a fight starts, I always do my best."

*Diner Waitress:* "Yeah, I heard. About a hundred yards in 10 seconds."

"Cici Jay"



"At times he's the easiest boss in the world to get along with. I remember one time in the fall of '51 . . ."

*Catty Cora:* "There I was sitting in the bathtub when the plumber walked in."

*Safety Sadie:* "I bet he really whistled when he saw your soft feminine curves."

*Catty Cora:* "That he did, dear. That he did—and it was the Star Spangled Banner."

CCJ

*STENO SUE:* "GEE, HOW YOU LOOKED MIGHTY SHARP IN THAT RED DRESS LAST NIGHT. DID YOU HAVE A GOOD TIME AT THE PARTY?"

*STENO LOU:* "YES, DARLING. AND THAT'S JUST THE TROUBLE. I'M TAKING THAT DRESS STRAIGHT BACK WHERE I BOUGHT IT."

*STENO SUE:* "HOW COME?"

*STENO LOU:* "THEY TOLD ME I COULDN'T GO WRONG IF I WORE IT TO A PARTY."

CCJ

*Hi-Lo Operator:* "They tell me that Charlie, the dock foreman, doesn't even suspect that his blonde wife is kissing all the men in town."

*Freight Loader:* "How does she do it?"

*Hi-Lo Operator:* "Oh, fair, but her teeth get in the way."

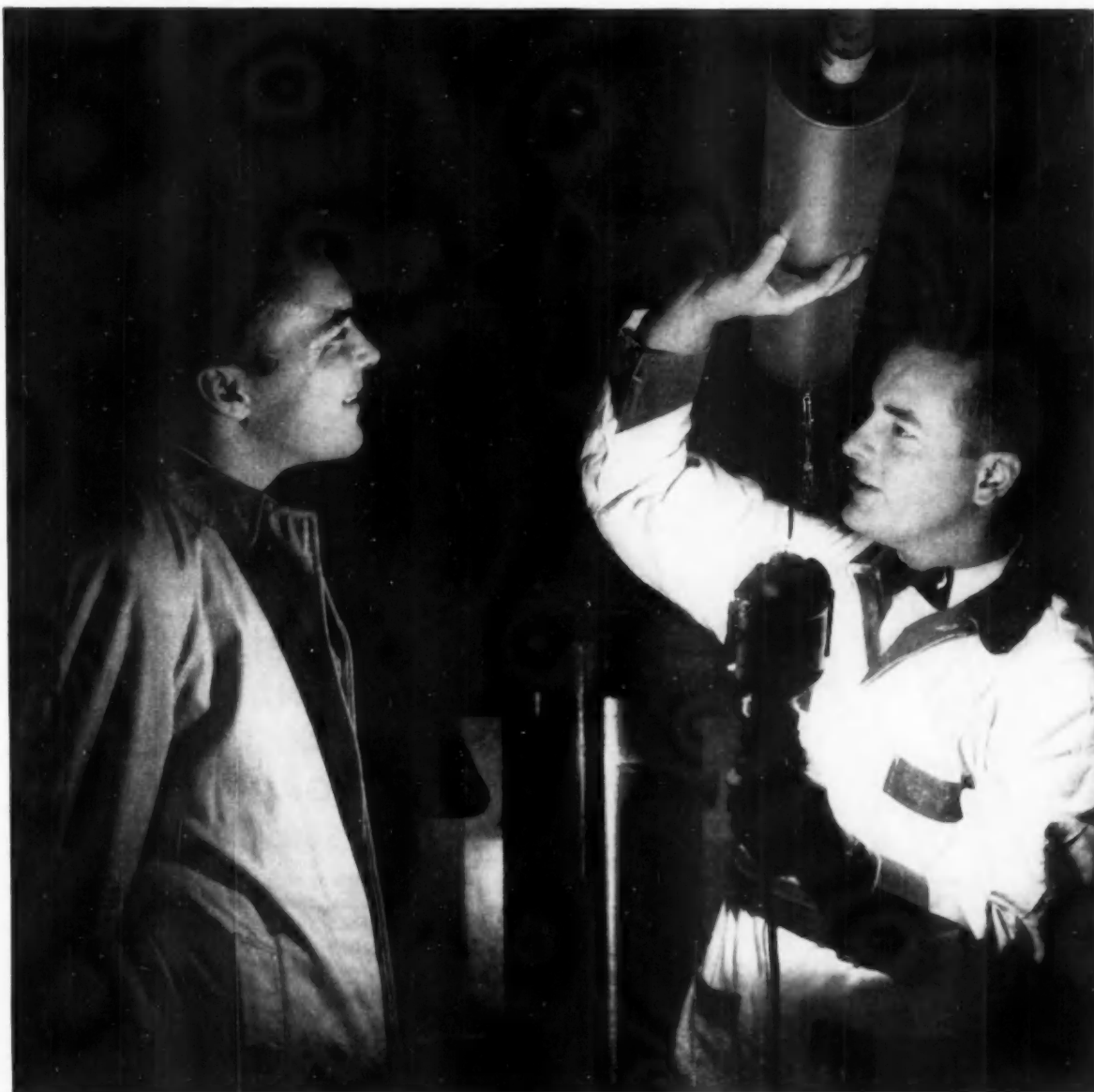
CCJ

*Steno Flo:* "Every night around my apartment the same old things happen."

*Steno Jo:* "What do you mean—the same old things?"

*Steno Flo:* "Well, first I put out the cat and then I throw out the wolf."

Resume Work



## **MōPār mufflers mean extra miles ... built for today's powerful gas surges**

Pennies saved on mufflers can quickly turn to dollars lost. Genuine economy lies in demanding a muffler built to stand up to today's powerful gas surges.

Construction of the MoPar muffler, made for the long haul, gives you these major advantages for extra profitable pay-off in operation:

- top rigidity and longer life
- extra strength, less vibration
- greatest safety protection
- quiet operation
- less back pressure

These advantages add up to extra miles, extra long-lived satisfaction. Don't gamble! MoPar mufflers are official, authentic Chrysler Corporation products. Order from your MoPar wholesaler salesman or your Plymouth, Dodge, DeSoto, Chrysler or Imperial dealer now.



MoPar Division ➤ Chrysler Motors Corporation  
Detroit 31, Michigan

8106B Trutest  
Special Gauge checks  
all other gauges.

7188BH  
All-Purpose  
Service Gauge.

3690 Type  
Chuck Gauge.

880  
Valve Cap

4000  
Valve Core

**Good fleet shop practice  
pays off with  
GENUINE  
SCHRADER  
TIRE GAUGES AND  
AIR SERVICE**

Flat-catching shop practices are economical, simple, and especially effective for fleets, where time is money. Take these three steps:

- 1 Gauge and record air pressures each day with Schrader Service Gauges. Seal air in with Schrader Caps and Cores.
- 2 Watch for unusual pressure drops, and fix tires *before* they go flat.
- 3 Certify the accuracy of your "every day" gauging-inflating equipment with Schrader 8106B Trutest Special Gauge.

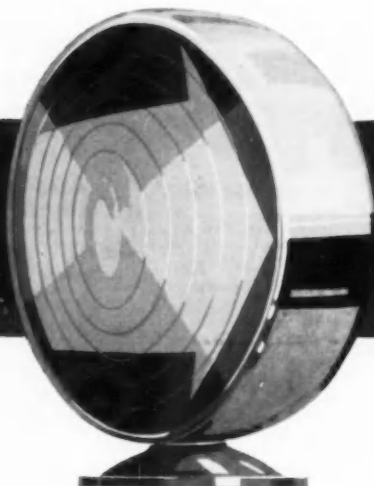
And, remember, Schrader Chucks, Couplers, Chuck Gauges and Accessories help airlines operate faster and better. Specify genuine Schrader Tire Valves, Cores and Sealing Caps which are guaranteed airtight even at 250 pounds pressure. Profit with complete air service.

A. SCHRADER'S SON • BROOKLYN 38, N. Y.  
Division of Scovill Manufacturing Company, Incorporated

**Schrader**  
a division of **SCOVILL**

FIRST NAME IN TIRE VALVES  
FOR ORIGINAL EQUIPMENT AND REPLACEMENT





## who's got what you want ?

### An Index of Products Advertised in this Issue...

When you want to know who makes a given item, use this section first. It's a handy guide to detailed information about the hundreds of products advertised in this issue. Using the page number references, you can generally find detailed description — frequently illustrations — of the products you're after. This index does not cover

all products manufactured by the companies advertising in this issue. However, every effort has been made to include all products specifically advertised. Listings in this section are not a part of the advertisers' contracts, and no allowance will be made for errors or omissions. General listings begin on page 73.

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Listings in this directory generally are limited to national distributors. For convenience—to save time in an emergency, it is suggested you keep a list of local sources. Address of the local supplier can easily be obtained by writing the manufacturer. (Don't forget that most vehicle manufacturers stock a line of parts for their vehicles.)

Advertisements in this issue often give detailed information on particular products. To locate the one you are interested in, use the handy guide beginning on page 69.

Literally thousands of changes have been made in this year's directory to keep it up-to-date and easy-to-use. Generally products are listed by basic name—ADJUSTERS, Brake. Where a compound name is more common, the product is listed that way—AIR CONDITIONERS, Cab. Listings "too late to classify" have been added at the end of the directory. If you can't find what you want, we'll be glad to help—just drop us a line.

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**ACCELEROMETERS.** See Meters, Brake Testing  
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## ADJUSTERS, Brake

Brakemaster Corp., 4605 W. Roosevelt Rd., Chicago 50, Ill.

## ADJUSTERS, Tire Chain

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.  
 Campbell Chain Co., York, Pa.  
 Crown Products Co., 5722 S. 77th St., Ralston, Neb.  
 Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
 Grayson Tool Co., 1412 W. 2nd St., Hastings, Neb.  
 Loeck & Co., H. J., 343 N. Gay St., Baltimore, Md.  
 McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.  
 Nauman Mfg. Corp., H. F., 625 Michigan Ave., Buffalo 3, N. Y.  
 Peerless Chain Co., Front & Walnut Sts., Winona, Minn.  
 Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.  
 Republic Steel Corp., Bolt & Chain Div., 1970 Carter Rd., Cleveland 13, Ohio.  
 Round Woodhouse Chain & Mfg. Co., Third St., Trenton 7, N. J.  
 St. Pierre Chain Corp., Frank St., Worcester, Mass.  
 Tingley Rubber Corp., 903 Ross St., Rahway, N. J.  
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
 Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.  
 Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Co., 575 Madison Ave., N. Y. 22, N. Y.

**AIR CLEANERS.** See Cleaners, Air

**AIR COMPRESSORS.** See Compressors, Air

## AIR CONDITIONERS

Ellis & Watts Products Co., P. O. Box 33, Cincinnati 36, Ohio. (Body.)  
 Era Tool and Engineering Co., 9240 Belmont Ave., Franklin Park, Ill.  
 Frigikar Corp., 1602 Cochran, Dallas, Texas.  
 Frigiquip Corp., 3724 North May Ave., P. O. Box 7206, Oklahoma City, Okla.  
 Kysor Heater Co., Cadillac, Mich.

National Gas Equipment Co., P. O. Box 122, Denison, Texas.  
 Novi Equipment Co., Novi, Mich.

## AIR-CONDITIONERS, Cab

Bonzer-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.  
 Capitol Refrigeration & Mfg. Co., 3922 Kullock Dr., Dallas 16, Tex.  
 Frigikar Corp., 1602 Cochran St., Dallas, Texas.  
 G & S Mfg. Co., 2824 E. Washington St., Phoenix, Ariz.  
 Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.  
 Kysor Heater Co., Haynes St., Cadillac, Mich.  
 Metal Products Engineering Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.  
 Onan & Sons, Inc., D. W., University Ave. S. E. at 25th St., Minneapolis 14, Minn.  
 Spitzka Mfg. Co., 235 Colfax St., North Sacramento, Calif.  
 Thermador Electrical Mfg. Co., 5119 District Blvd., Los Angeles 22, Calif.

## AIR CONDITIONING UNITS, Truck, Bus and Trailer

(See also Coolers, Truck, Bus and Trailer)  
 Airtemp Div., Chrysler Corp., 1610 Webster St., Dayton 1, Ohio.  
 Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio.  
 Ellis & Watts Products, Inc., P. O. Box 33, Cincinnati 36, Ohio.  
 Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.  
 Frigikar Corp., 1711 Cochran St., Dallas, Tex.  
 Keeco Industries, Inc., 2438 Beekman St., Cincinnati 14, Ohio.  
 McGraw Electric Co., 5201 W. 65th St., Chicago 38, Ill.  
 Onan & Sons, Inc., D. W., University Ave. S. E. at 25th St., Minneapolis 14, Minn.  
 Sutton Corp., O. A., 1812 West 2nd St., Wichita 1, Kans.  
 Thermo King Corp., 44 S. 12th St., Minneapolis 3, Minn. (Bus.)

## AIR COOLERS

Bonzer-Western Corp., 3055 East 12th St., Los Angeles 23, Calif.  
 G & S Mfg. Co., 2824 East Washington St., Phoenix, Ariz.  
 Metal Products Engineering, Inc., 4000 Long Beach Ave., Los Angeles 58, Calif.  
 Spitzka Mfg. Co., 235 Cedar St., North Sacramento, Calif.

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## ALARMS, Truck and Cargo Protection

Auto-Matic Alarm Systems, 2311 Indiana Ave., Chicago, Ill.  
 Babaco Alarm Systems, Inc., 733 Washington St., New York, N. Y.  
 Certified Burglar Alarm Systems, 1418 W. Augusta Blvd., Chicago, Ill.  
 Ever-Guard Automatic Burglar Alarm Co., Inc., 404 W. 53rd St., New York, N. Y.  
 The Tire Mart, Inc., National Fleet Service, 419 Fourth Ave., New York 16, N. Y. (Tire Guard.)  
 Victor Burglar Alarm Co., Inc., Clifton, N. J.

**ALIGNERS, Wheel, See Gages, Wheel and Axle Aligning**

## ALUMINUM, Sheet, Rod, Ingot, Shapes

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.  
 American Nickeloid Co., Peru, Ill. (Nickel and chrome plated aluminum, in sheets.)  
 Cleveland Electro Metals Co., 2391 W. 35th St., Philadelphia 29, Pa. (Rod, sheet, strip, bar and wire.)  
 Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa. (Rod, sheet, strip, bar and wire.)  
 Empire Metal Co., 820 E. Water St., Syracuse 3, N. Y.

# ammeters to axle suspension units ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

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Federated Metals Div. American Smelting & Refining Co., 120 Broadway, New York 5, N. Y. (Ingot.)  
Harvey Aluminum Co., 19200 S. Weston Ave., Tarrance, Calif. (Rod and wire.)  
Hunter Douglas Aluminum Corp., 3016 Kansas Ave., Riverside, Calif. (Strip.)  
Kaiser Aluminum & Chemical Corp., 1924 Broadway, Oakland 12, Calif. (Sheet, plate, coils, circles, billets, pig, ingot, rod, bar and wire.)  
Niagara Falls Smelting & Refining Div., Continental Copper & Steel Industries Inc., 2204 Elmwood Ave., Buffalo 23, N. Y.  
Precision Extrusions, 720 E. Green Ave., Bensenville, Ill. (Extruded shapes, rod, bar and tubing.)  
Reynolds Metals Co., 3rd & Grace Sts., Richmond 19, Va. (Sheet plate, wire rod bar, ingot and pig.)  
Seovill Mfg. Co., 99 Mill St., Waterbury 20, Conn.

## AMMETERS, Instrument Board

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)  
King-Seely Corp., 315 S. First St., Ann Arbor, Mich.  
Simpson Electric Co., Div. of American Gauge & Machine Co., 5208 W. Kinzie St., Chicago 44, Ill.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
United States Gauge Div. of American Machine and Metals, Inc., Clymer Ave., Sellersville, Pa.  
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

## ANALYZERS, Combustion

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Cambridge Instrument Co., Inc., 3732 Grand Central Terminal Bldg., N. Y. 17, N. Y.  
Commercial Research Div., George L. Nankervis Co., 15300 Fullerton St., Detroit 21, Mich.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Gow-Mac Instrument Co., 100 Kings Rd., Madison, N. J.  
Hanson Co., Harvey E. Lake Blvd. & Commercial St., Paw Paw, Mich.  
Heyer Industries, Inc., 471 Cortland St., Belleville 9, N. J.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.  
Permutit Co., 330 W. 42nd St., New York 36, N. Y.  
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Weidenhoff Corp., Algona, Iowa.

## ANALYZERS, Trouble (Engine and Electrical Equipment)

Actane Chemical Co., Philadelphia 8, Pa.  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Bacharach Industrial Instrument Co., 7801 Penn Ave., Pittsburgh 8, Pa.  
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.  
Du Mont Laboratories, Inc., Allen B., 750 Bloomfield Ave., Clifton, N. J.  
Hanson Co., Harvey E. Lake Blvd. & Commercial St., Paw Paw, Mich.  
Heyer Industries, Inc., 471 Cortland St., Belleville 9, N. J.  
Hygrade Products Co., 35-35 35th St., Long Island City, N. Y.  
Kal-Equip Co., Kalamazoo, Mich.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.  
Mack Products Co., 15 Putnam St., Winthrop, Mass.  
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.

Schauer Mfg. Co., 4500 Alpine Ave., Rossmoyne, Ohio.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.  
Weidenhoff Corp., Algona, Iowa.  
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif. (Engine.)

## ANTI-FREEZE, Cooling System

Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.  
Carbide & Carbon Chemicals Co., Div. of Union Carbide & Carbon Corp., 50 E. 42 St., New York 17, N. Y.  
Cliffs Dow Chemical Co., Wright St., Marquette, Mich.  
Commercial Solvents Corp., 260 Madison Ave., New York 17, N. Y.  
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.  
du Pont de Nemours & Co., E. I. Polychemical Dept., Zerone & Zerex Anti-Freeze Sales Section, Wilmington 98, Del.  
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.  
Gulf Oil Corp., 1822 Gulf Bldg., Pittsburgh 30, Pa.  
Master Co., 87 Preston Ct., Brooklyn 84, N. Y.  
Mopar Parts Div., Chrysler Corp., 7000 E. Eleven Mile Rd., Centerline, Mich.  
National Carbon Div. of Union Carbide & Carbon Corp., 30 E. 42nd St., New York 17, N. Y.  
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y.  
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 8, Md.  
Petroleum Chemicals Co., Tilton Rd., Danville, Ill.  
Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y.  
Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.  
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.  
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.  
U. S. Industrial Chemicals Co., Div. of National Distillers Products Corp., 120 Broadway, New York 5, N. Y.  
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.

## ANTI-FREEZE, Gasoline Line

Bardahl Mfg. Corp., 1400 W. 52nd St., Seattle 2, Wash.  
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Commercial Solvents Corp., 260 Madison Ave., New York 16, N. Y.  
Cristy Chemical Corp., 37 Harvard St., Worcester 2, Mass.  
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.  
du Pont de Nemours & Co., E. I. Finishes Div., Chemical Specialties Sales, Wilmington 98, Del.  
Glisten Co., 13 Barnard St., Hillsdale, Mich.  
Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.  
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
Lubri-Loy Co., 6319 Wilson St., St. Louis 10, Mo.  
Motor Kool Products Co., 505 Buttes Ave., Columbus 8, Ohio.  
Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio.  
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y.  
Rust Master Chemical Corp., 58 Creighton St., Cambridge, Mass.  
Standard Oil Co. of Calif., Western Operations, Inc., 225 Bush St., San Francisco 20, Calif.  
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.  
Zecol, Inc., 3270 S. 3rd St., Milwaukee 7, Wis.

## ARMATURES

American Generator & Armature Co., 6100 W. Grand Ave., Chicago 39, Ill.

Arrow Armatures Co., 15 Fordham Rd., Boston 39, Mass. (Rewinds.)  
General Armature & Mfg. Co., Box 370, Mill Hall, Pa.  
ARBOR PRESSES, See Presses, Arbor  
ARMS, BREAKER, See Parts, Ignition

## AXLE, Load Equalizing

De Lay Industries, Inc., 834 Paul Brown Bldg., St. Louis 1, Mo.  
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.

AXLE STRAIGHTENERS, See Straighteners, Axle; Gages, Wheel and Axle Aligning

## AXLE SHAFTS

Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.  
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.  
Dittmer Gear Mfg. Corp., 193 Grand St., Lockport, N. Y.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Lempeco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempeco Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Spencer Mfg. Co., 225 N. Main St., Spencer, Ohio.  
Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.  
Timken-Detroit Axle Div., Rockville Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.  
U. S. Axle Co., Inc., Water St., Pottstown, Pa.  
York Electric & Machine Co., Loucks Mill Rd., York, Pa. (Sole distributors, Foreman, Inc., 630 Loucks Mill Rd., York, Pa.)

## AXLE SUSPENSION UNITS, Trailers

Acme Trailer Mfg. Co., 2591 N. Marks Ave., Fresno, Calif.  
Bartlett Trailer Corp., 3050 Archer Ave., Chicago 8, Ill.  
Clark Equipment Co., Buchanan 3, Mich.  
Copeco Trailers, Div. of Copeco Steel Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich.  
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich.  
Fayette Mfg. Co., Box 8, Fayette, Ohio.  
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.  
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Redford Station), Detroit 19, Mich.  
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.  
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, (Chicago suburb), Ill.  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.  
Hobbs Trailer Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.  
Homan & Co., 611 Reading Rd., Reading, Cincinnati 15, Ohio.  
Hutchens & Son Metal Products, Inc., 2332 E. Division St. Rd., Springfield, Mo.  
Kingham Trailer Co., Inc., 15th & Hill Sts., Louisville, Ky.  
Neway Equipment Co., 1193 E. Laketon St., Muskegon, Mich. (Tandem unit.)  
Page & Page, 0605 S. W. Curry St., Portland 1, Ore.  
Pointer-Williamette Co., P. O. Box 368, Edmonds, Wash.  
Reynolds Mfg. Co., 600 N. Prospect Ave., Springfield 2, Mo.  
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.  
Shuler Axle Co., 2901 S. 2nd St., Louisville 8, Ky.  
Spencer-Safford Loadcraft Inc., Augusta, Kansas.  
Standard Forge & Axle Co., Hunter Sta., Montgomery 2, Ala. (Licensee.)  
Steel Products Co., Inc., Box 1159, Savannah, Ga.  
Trailmobile, Inc., 31st & Robertson Ave., Cincinnati 9, Ohio.  
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.  
Trucktor Corp., P. O. Box 120, Westfield, N. J.  
Youngstown Steel Car Corp., Hunter St., Niles 6, Ohio. (Self-steering undercarriage.)

## axle units to batteries

### AXLE UNITS, Third, Trucks

Acme Trailer Mfg. Co., 2591 N. Marks Ave., Fresno, Calif.  
Clark Equipment Co., Buchanan, Mich.  
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. (Four wheel drive.)  
F. A. B. Mfg. Co., 1249 67th St., Oakland 5, Calif.  
Fontaine Truck Equipment Co., 1232 37th Place, N., Birmingham, Ala.  
Foster Trailer Co., 2026 Bay St., Los Angeles 21, Calif. (Detachable.)  
Fox Body Co., 1109 Galena St., Janesville, Wis.  
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.  
Hobbs Trailers Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.  
Hutchens & Son Metal Products, Inc., E. Division St. Rd., Springfield, Mo.  
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.  
Maxi Corp., 1584 E. 20th St., Los Angeles 54, Calif.  
Neway Equipment Co., 1183 E. Laketon St., Muskegon, Mich.  
Page & Page, 0605 S. W. Curry St., Portland 1, Ore.  
Reynolds Mfg. Co., 600 N. Prospect Ave., Springfield, Mo.  
Road Runner Corp., 11835 Ave. O, Chicago 17, Ohio. (Detachable; sole distributor Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.)  
Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)  
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.  
Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.  
Truck Engineering Corp., 1235 W. 70th St., Cleveland 2, Ohio.  
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.  
Truckstell Mfg. Co., 1437 Union Commerce Bldg., Cleveland 14, Ohio.  
Trucktor Corp., P. O. Box 120, Westfield, N. J. (Also chain and sprocket drive.)  
Weber Trailer & Mfg. Co., 8400 Slauson Ave., Rivera, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.)

### AXLES, Front

Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 1, Wis. (Dual-steering tandem.)  
Clark Equipment Co., Buchanan, Mich. (Truck and bus.)  
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.  
Hahn Motors Inc., 400 S. Third St., Hamburg, Pa. (Dual.)  
Page and Page Co., 0605 S.W. Curry St., Portland 1, Ore.  
Shuler Axle Co., 2960 Second St., Louisville 8, Ky.  
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)

### AXLES, Front Drive

American Coleman Co., Littleton, Colo. (For conversions of Ford, Chevrolet, International G.M.C., Dodge, Mack, White, Reo and Autocar.)  
F. A. B. Mfg. Co., 1249 67th St., Oakland 5, Calif.  
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (For Ford conversions.)  
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

### AXLES, Power Converter (For Refrigerated Trucks & Trailers)

Grico Two Axle Drive Co., 19840 Eight Mile Rd., W. Detroit 19, Mich.

### AXLES, Rear

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)  
Cook Bros Equipment Co., 2334 San Fernando Rd., Los Angeles 65, Cal.  
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio. (Tandem for trucks.)  
Grico Two Axle Drive Co., 19840 Eight Mile Rd., W. (Redford Station) Detroit 19, Mich. (Tandem for trucks.)  
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill. (Wheel reduction.)  
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

### AXLES, Rear, Two-Speed

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.  
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.

### AXLES, Trailer

Clark Equipment Co., Buchanan, Mich.  
Fayette Mfg. Co., Box 8, Fayette, Ohio.  
French & Hecht, Div. of Kelsey-Hayes Co., 3rd and Farnam Sts., Davenport, Iowa.  
Grico Two Axle Drive Co., 19840 Eight Mile Rd., W. (Redford Sta.), Detroit 19, Mich.  
Hammer Blow Tool Co., 602 1/2 Third St., Wausau, Wis.  
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.  
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.  
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky.  
Liggett Spring & Axle Co., Monongahela, Pa.  
Liggett Supply & Equipment Co., 2030 S. Main St., Elkhart, Ind.  
Prior Products Inc., 4823 Rosell St., Dallas, Texas.  
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.  
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.  
Slimp Axle Products, Highway 99 West (P. O. Box 449), Colton, Calif. (Steering.)  
Spencer Mfg. Co., 225 N. Main St., Spencer, Ohio.  
Spencer-Safford Loadcraft, Inc., Augusta, Kan.  
Springfield Body & Trailer Co., 1631 College St., Springfield, Ohio.  
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala.  
Timken-Detroit Axle Div. of Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.  
Trucktor Corp., P. O. Box 120, Westfield, N. J.  
United Mfg. Co., 3637 W. 56th St., Cleveland 2, Ohio.  
Younestown Steel Car Corp., Hunter St., Niles 6, Ohio.

### BABBITT METALS

Aluminum Co. of America, 901 Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloys.)  
American Non-Gran Bronze Co., 511 Old Lancaster Road, Berwyn, Pa.  
Bearing Metals Corp., 288 State St., Rochester 14, N. Y.  
Belmont Smelting & Refining Works, 326 A Belmont Ave., Brooklyn, N. Y.  
Boston Gear Works, Div. of Murray Corp., 14 Hayward St., Quincy 71, Mass.  
Empire Metal Co., 820 E. Water St., Syracuse, N. Y.  
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.  
Lumen Bearing Co., 197 Lathrop St., Buffalo 12, N. Y.  
National Lead Co., 111 Broadway, New York 6, N. Y.  
North American Smelting Co., Marine Terminal, Wilmington, Del.  
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa.  
United American Metals Corp., 970 Meeker Ave., Brooklyn 22, N. Y.

### BABBITTING MACHINES, See Machines, Babbitting

### BALANCERS, Wheel

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bee-Line Co., Box 569, Davenport, Iowa.

Bennett-Feragen, Inc., 1006 S. Lafayette Blvd., South Bend 18, Ind.  
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.  
Hunter Engineering Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.  
Lambert, Inc., 613 Hunter Ave., Dayton, Ohio.  
Lempeco Products, Inc., 5490 Dunham Road, Bedford, Ohio.  
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago, Ill.  
Morgan Wheel & Equipment Co., 2007 St. Mary's Ave., Omaha 2, Neb.  
Schildeimer Co., H. C., 312 N. Senate Ave., Indianapolis 4, Ind.  
Speedmaster Ltd., 630 E. 10th St., Oakland 4, Calif.  
Stephenson Foundry & Mfg. Co., 548 E. Fort St., Detroit 26, Mich. (Static and dynamic.)  
Stewart-Warner Corp., Alemtic Div., 1526 Diversey Parkway, Chicago, Ill. (Electronic.)  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Dynamic.)

### BANDS, Tubeless Tire Mounting

Coats Co., 3001 Fifth Ave., Fort Dodge, Iowa.  
(Sole distributors, Jack P. Hennessy Sales Co., 12 Depot Sq., Englewood, N. J.)

### BARS, Towing, One Man Type

Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.  
Manley Div., Douglas Motors Inc., 2025 Clybourn St., Milwaukee, Wis.  
Marion Mfg. Co., N. Main St. at PRR, Marion, Ohio.  
Pilot Mfg. Co., Battle Creek, Mich. (Sole distributors, Pilot Distributing Co., 31 South Pl., Battle Creek, Mich.)  
Wood-Williams-Copp Mfg. Co., 5239 N. Michigan Ave., Ypsilanti, Mich.

### BATTERIES, Dry

Bright Star Industries, 600 Getty Ave., Clifton, N. J.  
Burgess Battery Co., Freeport, Ill.  
General Dry Batteries Co., 13000 Athens Ave., W. Cleveland 7, Ohio.  
Grant Storage Battery Div. Electric Storage Battery Co., 226 N. Second St., Minneapolis, Minn.  
Mallory & Co., P. R., 2029 E. Washington St., Indianapolis 6, Ind.  
National Carbon Co. Div., Union Carbide & Carbon Corp., 39 E. 42nd St., New York 17, N. Y.  
Olin Industries, Inc., Electrical Div., 275 Winchester Ave., New Haven 4, Conn.  
Ray-O-Vac Co., 212 E. Washington Ave., Madison 10, Wis.  
Underwood Battery Co., 1220 W. 6th St., Cleveland 13, Ohio.

### BATTERIES, Storage

American Battery Co., 1520 McGavock St., Nashville 3, Tenn.  
Am-Plus Storage Battery Co., 1000 W. 94th St., Chicago 20, Ill.  
Atlantic Battery Co., 80 Elm St., Watertown 72, Mass.  
Batteries, Inc., St. Paul 1, Minn.  
Bowers Battery & Spark Plug Co., Reading, Pa.  
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.  
Continental Battery Co., 1914 S. Central Expressway, Dallas 15, Tex.  
Crescent Battery & Light Co., 818 Camp St., New Orleans 12, La.  
Cumberland Battery Mfg. Co., 201 First Ave., S., Nashville 3, Tenn.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Douglas Battery Mfg. Co., Winston-Salem, N. C.  
East Penn Mfg. Co., Lyons Station, Pa.  
Electric Auto-Lite, Toledo 1, Ohio.  
Ebert-Allen Battery Co., 650 Tyler St., Joplin, Mo.  
Electric Storage Battery Co., Automotive Div., 246 E. 131st St., Cleveland 1, Ohio.  
The Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron 17, Ohio.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.



# bearing and con rod service to bearings and bushings

CCJ's Product Directory

## BATTERIES—continued

Geidel Battery Mfg. Co., 3393 Bigelow Blvd., Pittsburgh 19, Pa.  
Gill Electric Mfg. Corp., 624 W. Citrus Ave., Redlands, Cal.  
Globe-Union, Inc., 990 E. Keefe Ave., Milwaukee 1, Wis.  
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.  
Gould-National Batteries, Inc., First Nat'l Bank Bldg., St. Paul 1, Minn.  
Grant Scott Mariott Battery Div., 1112 Industrial Ave., Danville, Ill.  
Grant Storage Battery Div., Electric Storage Corp., 226 N. Second St., Minneapolis, Minn.  
Gulf Oil Corp., 1822 Gulf Bldg., Pittsburgh 30, Pa.  
Hester Battery Mfg. Co., 10 Culvert St., Nashville, Tenn.  
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.  
Laher Battery Production Corp., 2615 Magnolia St., Oakland, Cal.  
Lee Rubber & Tire Corp., Conahocken, Pa.  
Life-Long Battery Mfg. Corp., 11766 W. Pico Blvd., Los Angeles 64, Calif.  
Nic-L-Silver Battery Co., 600 Terminal St., Santa Ana, Calif.  
Pate Oil Co., 3459 W. Leeds Road, Milwaukee 15, Wis.  
Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.  
Perrine Quality Products Corp., 55 Rumford Ave., Waltham, Mass.  
Perry Batteries, 3102 Corunna Road, Flint 3, Mich.  
Prest-O-Lite Battery Div., Electric Auto-Lite Co., Toledo 1, Ohio.  
Price Battery Corp., Grand St., Hamburg, Pa. (Sole distributors, Lyons Storage Battery Co., Hamburg, Pa.; "Witherbee," sole distributor, Witherbee Storage Battery Co., Hamburg, Pa.)  
Prime Battery Mfg. Co., 2901 W. 8th St., Anderson, Ind.  
Put Battery Charger Co., 1207 Castle St., Dallas, Tex.  
Reading Batteries Div., Electric Auto-Lite Co., 4700 Fifth St., Highway, Temple, Pa.  
Red Diamond Battery Mfg. Co., 1415 N. Adams St., Peoria 3, Ill.  
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.  
Seranton Storage Battery Corp., Delaware St., Archbald, Pa.  
Southland Battery Co., 2040 Amelia St., Dallas, Texas.  
Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex.  
Surrette Storage Battery Co., Jefferson Ave., Salem, Mass.  
United Motors Service, General Motors Bldg., Detroit 2, Mich.  
Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill.  
Volta Battery Corp., 1000 E. 87th St., Chicago 19, Ill.  
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.  
Wisconsin Storage Battery Co., 1222-18th St., Racine, Wis.  
Witherbee Storage Battery Co., Hamburg, Pa.

**BATTERY CHARGERS, See Chargers, Battery.**

## BEARING and CON ROD SERVICE

Federal-Mogul, Detroit 13, Mich.

## BEARINGS, Ball

Aetna Ball & Roller Bearing Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill. (Thrust and angular contact.)  
Ahlberg Bearing Co., 3025 W. 47th St., Chicago 32, Ill.  
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.  
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
Automatic Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.  
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn.  
Bearings Co. of America, Div. of Federal-Mogul-Bower Bearings, Inc., 501 Harrisburg Ave., Lancaster, Pa.  
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.

Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill. (Assemblies.)  
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J.  
Continental Bearing Corp., 2515 Wabash Ave., Chicago 16, Ill.  
Fafnir Bearing Co., 37 Booth St., New Britain, Conn.  
Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.  
Gilpok Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.  
Green Ball Bearing Co., 9515 Cassius Ave., Cleveland 5, Ohio.  
Gwilliam Co., 360 Furman St., Brooklyn 1, N. Y.  
Heim Co., 46 Sanford St., Fairfield, Conn.  
Hoover Ball & Bearing Co., Ann Arbor, Mich.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Kaydon Engineering Corp., Muskegon, Mich.  
L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.  
Majestic Bearing Div. of Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Marlin-Rockwell Corp., 402 Chandler St., Jamestown, N. Y. (Sole distributors to replacement trade, M-R-C Bearings Service Co., Jamestown, N. Y.)  
Master Parts Div., Airtex Products Inc., Fairfield, Ill.  
New Departure Div., General Motors Corp., Bristol, Conn. (Steel.)  
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.  
Norma-Hoffmann Bearings Corp., Hamilton Ave., Stamford, Conn.  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
Powercraft Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.  
Schatz Mfg. Co., Poughkeepsie, N. Y.  
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.  
Thomson Industries, Inc., 1029 Plandome Rd., Manhasset, N. Y.  
United Motors Service, General Motors Bldg., Detroit 2, Mich.  
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 16, Wis.

## BEARINGS, Clutch Throwout

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.  
Aetna Ball & Roller Bearings Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill. (Ball; sole distributors to replacement trade, Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.)  
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
Automatic Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.  
Bearings Co. of America, Div. of Federal-Mogul-Bower Bearings, Inc., 501 Harrisburg Ave., Lancaster, Pa.  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Green Ball Bearing Co., 9515 Cassius Ave., Cleveland 5, Ohio.  
L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.  
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2955 E. 55th St., Cleveland 27, Ohio.)  
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.  
Perfection Gear Co., 152nd St. & Viennese Ave., Harvey, Ill.  
Preferred Electric Wire Co., Bush Terminal Bldg., #8, Brooklyn 32, N. Y.  
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.  
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.  
Schatz Mfg. Co., Poughkeepsie, N. Y.

**BEARING LEAK DETECTORS, See Testers, Bearing Wear**

## BEARINGS, Roller

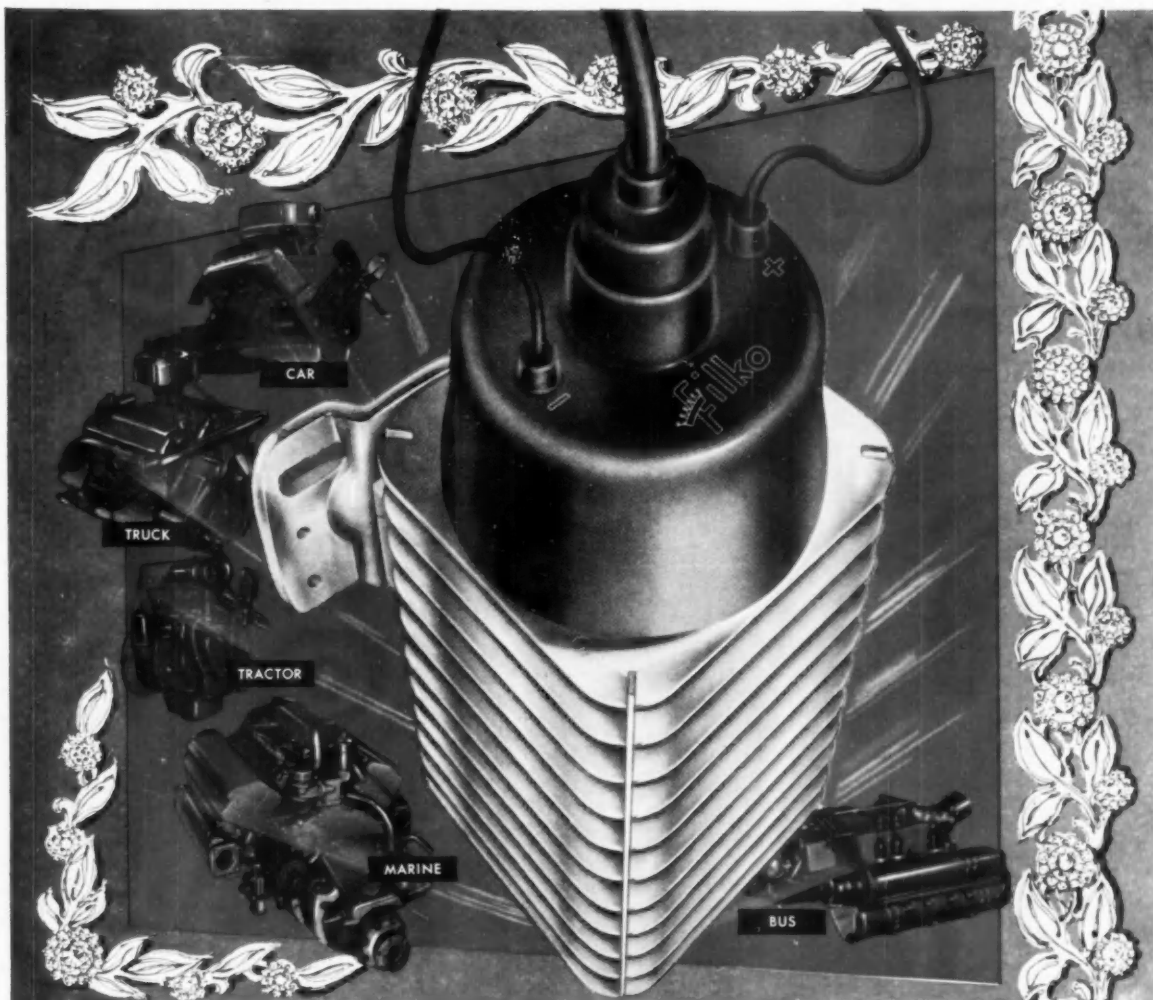
Aetna Ball & Roller Bearing Co., Div. of Parkersburg-Aetna Corp., 4600 Schubert Ave., Chicago 39, Ill.

American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.  
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.  
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn.  
Bower Roller Bearing Div., Federal-Mogul-Bower Bearings, Inc., 3040 Hart Ave., Detroit 14, Mich.  
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J.  
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Federal-Mogul Service, Div. Federal-Mogul Corp., Detroit 13, Mich.  
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.  
Gilpok Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.  
Gwilliam Co., 360 Furman St., Brooklyn 1, N. Y.  
Heim Co., 46 Sanford St., Fairfield, Conn.  
Hoover Ball & Bearing Co., Ann Arbor, Mich.  
Hyatt Bearings Div., General Motors Corp., Harrison, N. J.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Kaydon Engineering Corp., Muskegon, Mich.  
L & S Bearing Co., 6 S. Pennsylvania Ave., Oklahoma City, Okla.  
Majestic Bearing Div. of Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Norma-Hoffmann Bearing Corp., Hamilton Ave., Stamford, Conn.  
Orange Roller Bearing Co., 557 Main St., Orange, N. J.  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
Powercraft Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Roller Bearing Co. of America, Sullivan Way West Trenton, N. J.  
Rollway Bearing Co., 541 Seymour St., Syracuse 4, N. Y.  
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.  
Timken Roller Bearing Co., 1835 Dueber Ave., S. W., Canton 6, Ohio.  
Torrington Co., 86 Field St., Torrington, Conn.  
Tyson Bearing Corp., Oberlin & Thomas Aves., Massillon, Ohio.  
United Motors Service, General Motors Bldg., Detroit 2, Mich.

## BEARINGS and BUSHINGS

Allied Motor Parts Co., Detroit 1, Mich.  
Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, L. I., N. Y. (Aluminum lined, semi-finished.)  
Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.  
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.  
Bronze Bearings Inc., 340 North Ave., E. Cranford, N. J.  
Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland 3, Ohio.  
Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.  
Cleveland Graphite Bronze Co., Div. of Clevite Corp., 17000 St. Clair Ave., Cleveland 10, Ohio. (Also sole distributors to replacement trade, Clevite Service, 6545 Carnegie Ave., Cleveland 3, Ohio; bearings.)  
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)  
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif. (Babbitt lined bearings.)  
Federal-Mogul Div., Federal-Mogul-Bower Bearings, Inc., 11031 Shoemaker Rd., Detroit 13, Mich.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Johnson Bronze Co., 640 S. Mill St., New Castle, Pa.  
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis, Ind.  
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)  
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.  
Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind. (for power take-off drive lines)





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## new **FILKO** all weather coil!

Every inch of this new heavy duty coil is designed to deliver **ONE MILLION MILES PLUS** performance! Every facet of this true "Crown Jewel of Ignition" is million-mile engineered! Yes, Filko Engineering stands behind this coil with the *first and only* **ONE MILLION MILE GUARANTEE!** And for three good reasons: windings are engineered for minimum electrical losses and the elimination of "hot spots"; *high conductivity fill* between unit winding and case assures maximum internal heat transmission; coil case and cooling fins combined, afford 173 sq. in. of rapid heat dissipation. Little wonder this is the **FIRST** coil ever built with a **ONE MILLION MILE GUARANTEE!**

- Completely weather-proofed — can't short out!
- 5 times the heat-dissipation of conventional coils lengthens life!
- Low current draw for quicker cold weather starting!

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G-115RR

# belts to blue

CCJ's Product Directory

## BEARINGS—continued

National Molded Products, Inc., 40 S. St. Marys St., St. Marys, Pa.  
Pioneer Motor Bearing Co., 116 Beacon St., South, San Francisco 9, Calif. (Babbitt lined.)  
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Engine bearings.)  
United Motors Service, General Motors Bldg., Detroit 2, Mich.  
Wolverine Gear & Parts Co., Osseo, Mich. (Camshaft bearings.)

## BELTS, Fan and Accessories

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Boston Woven Hose & Rubber Co., P. O. Box 101, Boston 3, Mass.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Crown Products Co., 5722 S. 77th St., Ralston, Neb.  
Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Texas.  
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.  
Diamond Rubber Co. Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.  
Durkee-Atwood Co., 215 Seventh St., N. E. Minneapolis 13, Minn.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Goodrich Co., B. F., Industrial Products, 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.  
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.  
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
Loreman Products, Moore & Division Sts., Salisbury, Md.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Ohio Rubber Co., 30 Ben Hur Ave., Willoughby, Ohio.  
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.  
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
Ridbo Laboratories, Inc., 211 E. Harrison St., Danville, Ill. (Fan).  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

## BELTS, Safety

Aero Safety Equipment Co., Los Angeles, Cal.  
Alofs Mfg. Co., 345 32nd St., S.W., Grand Rapids 8, Mich.  
Ansul Chemical Co., Fire Extinguisher Div., Marinette, Wis.  
Brown Automotive Ray, 5656 Santa Monica Blvd., Los Angeles 38, Calif.  
Bunke-Musser, Inc., Box 386, Jackson Center, Ohio.  
Fabric Mfg. Co., 97 Chestnut St., Newark 5, N. J.  
Goodrich Co., B. F., Tire & Equipment Div., 500 S. Main St., Akron, Ohio.  
Hickok Mfg. Co., 850 St. Paul St., Rochester 1, N. Y.  
Irving Airchute Co., Lexington, Ky.  
Kwikset Automotive Products, Div. of Kwikset Locks, Inc., Anaheim, Calif.  
Modern Accessories Co., 1526 Scott Blvd., Covington, Ky.  
Narrow Fabric Co., Reading, Pa.  
Rupert Parachute Co., Wheeling, Ill.  
Russell Mfg. Co., Middletown, Conn.  
Safety Sales Co., Stanford, Conn.  
Schlitzel Mfg. Co., 277 N. Goodman St., Rochester 7, N. Y.  
Southern Weaving Co., 4 Evans St., Greenville, S. C.  
Spartan Automotive Div., Spartan Corp., Jackson, Mich.  
Stebco Mfg. Co., 1401 W. Jackson Blvd., Chicago 7, Ill.  
Sturges Mfg. Co., 2030 Sunset Ave., Utica 4, N. Y.  
Switlik Parachute Co., 1325 E. State St., Trenton, N. J.

Thomas Co., R. M., 2019 E. Willard St., Muncie, Ind.

## BENCH DRILLS, See Drill Presses

## BENDERS, Tube

Capewell Mfg. Co., 60 Governor St., Hartford, Conn.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.  
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.  
Farrell-Cheek Steel Co., Ft. Madison St., Sandusky, Ohio.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Leonard Precision Products Co., 10052 Larson Ave., Garden Grove, Calif.  
Lidseen Inc., Gustave, Hayesville, N. C. (Portable machine)  
Logansport Machine Co., Center Ave., Logansport, Ind.  
O'Neill-Irwin Mfg. Co., Lake City, Minn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.  
Paul Machine Tool & Die Works, 4600 S. Kedzie Ave., Chicago 32, Ill.  
Pines Engrg. Co., 601 Walnut St., Aurora, Ill.  
Tal Bending Equipment Inc., 417 N. Water St., Milwaukee 2, Wis.  
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.  
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

## BINDERS, See Lead Binders

## BINS, Parts Storage

Akro-Mils Inc., 820 E. Market St., Akron 5, Ohio.  
American Metal Products Co., 5959 Linsdale Ave., Detroit 4, Mich.  
Bathey Mfg. Co., 100 S. Mill St., Plymouth, Mich.  
Bay Products, Inc., (Steel), 3001 N. 16th St., Philadelphia 32, Pa.  
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.  
Bernard Franklin Co., Hedley & Bath Sts., Phila., 37, Pa.  
Borroughs Mfg. Co., 3002 N. Burdick St., Kalamazoo, Mich.  
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Equipto Div. of Aurora Equipment Co., Prairie St., at Cleveland Ave., Aurora, Ill.  
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.  
Fort Steuben Metal Products Co., Follansbee, W. Va.  
Franklin Co., Bernard, Healey & Bath Sts., Philadelphia 37, Pa.  
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.  
Frontier Mfg. Co., 11200 Harry Hines Bldg., Dallas, Tex.  
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.  
Hope Metal Products Co., 1688 Arabella Rd., Cleveland 12, Ohio.  
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.  
Midland Mfg. Inc., 1100 S. McComa's St., Wichita 12, Kan. (Steel)  
Miller Wood Products Co., Greater Rockford Airport, Rockford, Ill.  
Neiman Steel Equipment Co., 2960 E. Venango St., Philadelphia 34, Pa.  
Red Tiger Products, Inc., 20 N. Wacker Drive, Chicago 6, Ill.  
Renie Metal Products Corp., P. O. Box 344, Mansfield, Ohio.  
Space Saving Equipment Co., 160-18 27th Ave., Flushing 35, N. Y. (Steel)  
Supreme Steel Equip. Co., 53rd St. & First Ave., Bklyn. 32, N. Y.  
Union Metal Mfg. Co., 1432 Maple Ave. N.E., Canton 5, Ohio.

## BLADES, Saw, Band

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass.  
Atkins Saw Div., Borg-Warner Corp., 402 S. Illinois St., Indianapolis 9, Ind.

Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.  
Chicago Saws, Inc., 6137 S. Oak Park St., Chicago 9, Ill.  
Diamond Saw Works, Inc., 260 Court St., Buffalo 2, N. Y.  
Diston Div. H. K. Porter Co., Henry, Unruh & Milnor Sts., Tacony, Philadelphia 35, Pa.  
DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.  
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.  
Griffin Co., G. W., 93 Memorial St., Franklin, N. H. (Sole distributors, John H. Graham & Co., 105 Duane St., New York 8, N. Y.)  
Heller Tool Co., Heller Dr., Newcomerstown, Ohio.  
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.  
Millers Falls Co., Greenfield, Mass.  
Napier Saw Works, 22 Cottage St., Middletown, N. Y.  
Rockwell Tools, Inc., 1314 Kinnear Rd., Columbus 8, Ohio.  
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.  
Spartan Saw Works, Inc., 152 Fisk Ave., Springfield 7, Mass.  
Starrett Co., L. S., 1-165 Crescent St., Athol, Mass.  
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

## BLADES, Saw, Circular

Atkins Saw Div., Borg-Warner Corp., 402 S. Illinois St., Indianapolis 9, Ind.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Chicago Saws, Inc., 6137 S. Oak Park St., Chicago 9, Ill.  
Circular Tool Co., 765 Allens Ave., Providence, R. I.  
Cowley Tool Co., 2086 W. 110th St., Cleveland, Ohio.  
Diston Div. H. K. Porter Co., Henry, Unruh & Milnor Sts., Tacony, Philadelphia 35, Pa.  
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.  
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Mica underlating.)  
Motch & Merryweather Machinery Co., 715 Penton Bldg., Cleveland 13, Ohio.  
Page Slotting Saw Co., 1836 Laurence Ave., Toledo 6, Ohio.  
Retool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.  
Rockwell Tools, Inc., 1314 Kinnear Rd., Columbus 8, Ohio.  
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.  
Standard Tool Co., 3950 Chester St., Cleveland 14, Ohio.  
Wiley's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

## BLEEDERS, Hydraulic Brake

Ammco Tools Inc., 2100 Commonwealth Ave., North, Chicago, Ill.  
Araco Mfg. & Sales Corp., 451-10th Ave., New York 18, N. Y.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Dixie-Jibo Co., 2004 Mullanphy St., St. Louis 6, Mo.  
Eis Automotive Corp., Middletown, Conn.  
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
Wilco Products Inc., 595 Valley St., Orange, N. J.  
Wilson, Inc., K. R., Arcade, N. Y.

BLOCKS, CRANE and DERRICK, See Cranes.  
Crawler & Truck Mounted  
BLOCKS, BRAKE, See Lining, Brake

## BLUE, Mechanics'

Dykem Co., 2301 N. 11th St., St. Louis 6, Mo.  
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.



Almost a million and a half repair-free miles were clocked off by 37 Mack H-63T Diesels in their first year of operation for Cross Transportation, Inc. No newcomers to the ranks of Mack users, Cross has been operating Macks since 1938, has used them to good advantage in building up thriving routes from New Jersey to Virginia, Pennsylvania, New York and New England.

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\$0.09 per mile. You can't beat that."

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**first name for**  
**TRUCKS**



# bodies

CCJ's Product Directory

## BODIES, Ambulance and Funeral

Eureka Co., 312 W. First St., Rock Falls, Ill.  
(Hearse & ambulance, for Cadillac chassis.)  
Franklin Body & Equipment Corp., 1042 Dean St., Brooklyn, N. Y. (Ambulance.)  
Hesse & Eisenhardt Co., 8959 Blue Ash Ave., Rossmore, Ohio.  
Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio.  
Miller Div., Wayne Works, Inc., Bellefontaine, Ohio.  
National Body Mfg. Co., Main St., Knightstown, Ind.  
Roehl Spring and Body Co., 417 S. 15th St., St. Louis 3, Mo.  
Shop of Siebert, Associates, Inc., Waterville, Ohio.  
Superior Coach Corp., Southern Div., Kosciusko, Miss.

## BODIES, Commercial

Allegheny Body Co., 1633 N. 6th St., Phila. 22, Pa. (Refrigerated van, rescue, squad, armored, utility and line construction.)  
Aluminum Body Corp., 1690 W. Washington Blvd., Montebello, Calif.  
American Body & Equipment Co., P. O. Box 3107, Dallas 21, Tex. (Insulated and refrigerated.)  
American Body & Trailer, Inc., P. O. Box 1150, Oklahoma City 1, Okla.  
American Fire Apparatus Co., Golden Ave. at Main St., Battle Creek, Mich. (Fire fighting apparatus.)  
American Truck & Body Co., Martinsville, Va.  
Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.  
Arkansas Machine Specialty Co., Hope, Ark. (Bottlers.)  
Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis. (Fire fighting equipment, utility, refrigerated, bottlers, etc.)  
Badger Body Mfg. Co., 2719 Cumming St., Omaha, Neb. (Combination grain and stock.)  
Baker Equipment Engrg. Co., Summit & Norfolk Sts., Richmond 11, Va. (Also public utility.)  
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.  
Baltimore Body Corp., 2253 Kirk Ave., Baltimore, Md.  
Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.  
Barry & Bailly Co., 2419 N. 27th St., Philadelphia 32, Pa.  
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.  
Batavia Body Co., 5 W. Wilson St., Batavia, Ill. (Refrigerator.)  
Baughman Mfg. Co., Shipman Rd., Jerseyville, Ill. (Bulk, cement and feed.)  
Bedell Trailer Co., 1506 S. Flores St., San Antonio 4, Tex. (Refrigerated.)  
Belgrade Wagon Works, 3740 E. Thompson St., Philadelphia 37, Pa.  
Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J. (Also bus.)  
Black & Sons, Inc., Adam, 276 Tonnele Ave., Jersey City 6, N. J. (Refrigerator and bus.)  
Blue Bird Body Co., Fort Valley, Ga. (Passenger & school bus.)  
Boardman Co., P. O. Box 1152, Oklahoma City, Okla. (Special duty.)  
Bolic Sons Co., Jerome, Conover, N. C. (Also bus.)  
Born & Sons, Inc., Herman, N. North Point Rd. & Bayview Ave., Baltimore 24, Md.  
Boyertown Auto Body Works, Inc., Third & Walnut Sts., Boyertown, Pa.  
Brightbill Body Works, Inc., M. A., Lebanon, Pa.  
Brunswick Body Wks., U. S. Route 1, New Brunswick, N. J.  
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.  
C & C Trailer & Body Co., 8855 San Leandro St., Oakland 21, Calif.  
Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio.  
Carpenter Body Works, Inc., Mitchell, Ind.  
Cato Trailer Service Co., White Horse Rd., Greenville, S. C. (Truck and trailer.)  
Chadwick, Inc., Seventh St. & Keystone Ave., Darby, Pa.  
Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 1, Wis. (Ready mixed concrete.)  
Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich. (Also bus.)

Clark Co., B. M., Union, Maine.  
Clayson-Lorenz Co., 4058 W. Chicago Ave., Chicago 51, Ill. (Custom built.)  
Cliffside Body Corp., 230 Laird Ave., Cliffside Park, N. J. (Steel and aluminum.)  
Cook Body Co., 2433 Wilkinson Blvd., Charlotte 8, N. C. (Van platform, stake.)  
Copeco Trailers, Div. of Copeco Steel & Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich.  
Couse Mfg., Inc., 300 Passaic St., Newark 4, N. J. (Armored.)  
Crown Body & Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.  
Crown Steel Products Co., Orrville, Ohio.  
Cutler Metal Products Co., 1029 Line St., Camden, N. J.  
Daybrook Hydraulic Div. of L. A. Young Spring & Wire Corp., Bowling Green, Ohio.  
De Hart & Son, H. A., Crown Pt. Rd., Thorofare, N. J.  
DeKalb Commercial Body Co., W. 229 Garden St., DeKalb, Ill. (Stake, milk delivery, freighter vans, bakery, laundry, refrigerator, parcel delivery, etc.)  
Delphi Body Works, 311 S. Washington St., Delphi, Ind. (Public utility.)  
Diehl & Sons, Inc., 129 Atlantic Ave., Richmond Hill 19, N. Y.  
Dixie Tallyho, Inc., Fairburn, Ga. (Unit which converts truck into station wagon for pickup bodies.)  
Driban Body Works, 1310 S. Second St., Philadelphia, Pa.  
Dura-Bilt Body Co., Bldg. No. 8, National Dock, East Roston 28, Mass.  
Eight Point Trailer Co., 6100 E. Washington Blvd., Los Angeles 22, Calif. (Special.)  
Evans Mfg. Co., John, (3 miles south of Hwy. 15A), Sumter, S. C.  
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill. (Public utility.)  
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Stake and platform.)  
Finn Auto Body Co., 15 W. Charlton St., Cincinnati 19, Ohio.  
Finney Body Co., 811 W. Taney St., Phila. 30, Pa.  
Fontaine Truck Equipment Co., 1232 37th Pl. N., Birmingham, Ala. (Brick.)  
Fort Smith Structural Steel Co., P. O. Box 915, Fort Smith, Ark.  
Fox Body Co., 1109 Galena St., Janesville, Wis.  
Franklin Auto Body & Equipment Corp., 1042 Dean St., Brooklyn, N. Y. (Bus.)  
G & G Mechanical Co., 722 N. Main St., Fort Worth 6, Texas.  
Gar Wood Industries, Inc., Wayne, Mich. (Garbage and rubbish collection unit.)  
General Body Mfg. Co., 713 W. Pennway, Kansas City, Mo. (Plastic.)  
Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.  
Gertenslager Co., Wooster, Ohio. (Bankmobile, bookmobile, display, medical and rescue coach.)  
Giant Mfg. Co., 12th Ave. & S. Sixth St., Council Bluffs, Iowa. (Farm and City Stake.)  
Gichner Iron Works, Inc., Fred S., 1214-24th St. N. W., Washington 7, D. C. (Glass industry, soft drink, aluminum utility, etc.)  
Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind. (Refrigerated.)  
Gindy Mfg. Co., Boot Rd. & Chestnut St., Downingtown, Pa.  
Grant Body Mfg. Corp., 5900 E. Admiral Pl., Tulsa, Okla.  
Hackney Bros. Body Co., Goldsboro St., Wilson, N. C. (Refrigerator, meat, van, dairy, utility and bus.)  
Hackney & Sons, J. A., 400 Hackney Ave., Washington, D. C.  
Hayes Metal Products Div., United Industrial Corp., 551 Seventh St., N.W., Grand Rapids 2, Mich.  
Heil Co., Dept. 3000 W. Montana St., Milwaukee 1, Wis. (Garbage-refuse.)  
Hercules Galion Products, Inc., Galion, Ohio. (Side loading packer type garbage and refuse collection.)  
Hercules Mfg. Co., 1501 W. Franklin St., Evansville 7, Ind. (Insulated, refrigerated, platform, stake, grain, cattle and combination.)  
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo. (Refrigerator, delivery van, bottlers, beverage, bakery, etc.)  
Hess & Eisenhardt Co., 8959 Blue Ash Ave., Rossmore, Ohio. (Airport buses.)  
Hesse Carriage Co., 1720 Cherry St., Kansas City, Mo.  
Hews Body Co., 87 St. John St., Portland 4, Maine

Hicks Body Co., 510 Indianapolis Ave., Lebanon, Ind. (Bus.)  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis. (Public utility.)  
Hobbs Trailers Div. of Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex.  
Hoffman Auto Body Service, Inc., 1480 N. Grant Ave., Columbus, Ohio. (Insulated & refrigerated.)  
Hoiby Body Co., E., 2010 Washington Ave., N., Minneapolis, Minn.  
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio. (Public utility.)  
Hooper Body Corp., 31 St. & Warwick Ave., Newport News, Va. (Stake, van, etc.)  
Hubbard Mfg. Co., Farmland, Ind. (Service car.)  
Hughes-Keenan Div. U. S. Air Conditioning Corp., P. O. Box 360, Delaware, Ohio.  
Hyde Corp., 2936 S. Freeway, Fort Worth, Tex. (Garbage refuse collection.)  
Industrial Steel Tank & Body Works, Inc., 2533 Fourth St., Berkeley 10, Calif.  
Ingersoll Kalamazoo Div., Borg-Warner Corp., 1810 N. Pitcher St., Kalamazoo, Mich. (Detachable containers for loose bulk material and refuse.)  
Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.  
Jefferson Body Co., 1711-3rd Ave., S., Birmingham 3, Ala.  
Jensen's Body Shop, Phillips, Wis.  
John Bean Div., Food Machinery & Chemical Corp., 1305 S. Cedar St., Lansing 4, Mich. (Fire fighting equipment.)  
Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.  
Kennedy Mfg. Co., 501 N. Monroe St., Streator, Ill. (Grain, live stock.)  
Kensington Wagon Works, 2756 Frankford Ave., Philadelphia 34, Pa.  
Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.  
Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 5, Wash. (Bus.)  
Ketter Truck Bodies, Third & Ellison Ave., Ironton, Ohio. "Markette."  
Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Wis.  
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 20, Mo.  
Keystone Wagon Works, Inc., C St. & Allegheny Ave., Philadelphia 34, Pa. (also refrigerated.)  
Kiley Co., James A., 15 Linwood St., Somerville, Mass. (Public utility.)  
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky.  
Klein Body Co., 3280 W. 25th St., Cleveland 9, Ohio (also Public Utility)  
Knapheide Mfg. Co., 440 S. 6th St., Quincy, Ill. (Grain, livestock and stake.)  
Koch & Son Mfg. Co., 200 Wilson Ave., N. E., St. Cloud, Minn.  
Koerner Sons, Inc., John, 94 Walton St., Brooklyn 6, N. Y.  
Lacey & Sons Co., W. F., 50 Mystic Ave., Medford 55, Mass.  
Lagerquist Body Co., 2nd & Keosauqua Sts., Des Moines, Iowa (Refrigerated insulated.)  
Lang Co., 267 W. First South St., Salt Lake City 10, Utah.  
Lewinohn Sales Co., Inc., 4601-15 Dell Ave., North Bergen, N. J.  
Long Trailer Service, Goldsmith & McKoy Sts., Greenville, S. C. (Van, stake and furniture delivery.)  
Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
M-B Corp., 1615 Wisconsin Ave., New Holstein, Wis. (Garbage and refuse.)  
Manley Div., Douglas Motors, Inc., 2025 Clybourn St., Milwaukee, Wis. (Wreckers.)  
Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.  
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. (Service truck.) (Public utility.)  
Meeks Son, S. J., 622 G St., N. W., Washington 1, D. C.  
Mercury Aircraft, Inc., Hammondsport, N. Y.  
Metal Auto Parts Co., 1428 W. Henry St., Indianapolis 7, Ind.  
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y. (Refrigerated.)  
Mickey Body Co., W. F., 105 Perry St., High Point, N. C. (Sliding door beverage.)  
Midwest Body & Mfg. Div. Electrophographic Corp., S. Central St., Paris, Ill. (Stake, farm and van.)  
Midwest Works, Inc., W. on Highway 54, Augusta, Kans.



# Integral Flow Control Now Available In Larger Volume Vickers Vane Pumps

For power steering of vehicles with  
very heavy front axle loading

## Assures Optimum Steering ... Simplifies and Reduces Cost of Installation

Flow control in hydraulic power steering circuits is necessary because power steering pumps vary in volume delivery according to engine speed. To assure adequate steering power while maneuvering in tight places, the pump must be chosen to provide ample volume at engine idle speed. The much greater flow at high speed, if not controlled, results in unsatisfactory and sometimes unstable steering performance. Further disadvantage is undue heating of the hydraulic fluid.



FIG. 1—Vickers Series V200 Vane Pump with integral flow control and relief valve. Available in 3 sizes with nominal rated capacities of 5, 8 and 11 gpm.\* Controlled flow rates of all sizes are 2, 4, 6 and 7 gpm at relief valve setting of 750 or 1000 psi.

\*Rating at 1200 rpm.

An integral flow control valve for limiting flow to the steering device has always been a feature of the small Vickers Vane Type Pumps used in passenger car steering. Excess fluid resulting from higher engine speeds is returned to the reservoir with minimum pressure loss and very little heating. Previously, the larger pumps used for steering heavy vehicles did not have an integral flow control valve. It was installed as a separate unit.

Now Vickers offers larger pumps—the V200 Series—with integral flow control (See Fig. 1), which simplifies and substantially reduces the cost of installation. Smaller hydraulic lines to the steering booster are made possible by limiting flow in this part of the circuit.

For applications requiring two

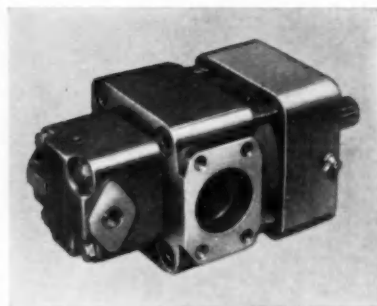


FIG. 2—Vickers Double Pump for operating two independent hydraulic circuits from one power source. Series V2200, V3200 and V4200 are available with the smaller pump (Series V200) having integral flow control for power steering.

separate hydraulic circuits, the Vickers line now includes three new

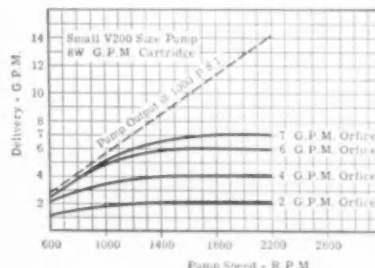


FIG. 3—Typical performance curves of Vickers V200 Pump with Integral Flow Control and 8 gpm cartridge. Delivery rises quickly with speed and then holds at controlled flow rate setting.

loads, provides longer life and reduced maintenance. Automatic wear compensation maintains "new-pump" efficiency throughout a very long life. Starting in cold weather is easier.

More Vickers designed pumps than all other makes combined are used for hydraulic power steering. Ask for new installation drawings M192680, M192856, M192857, M192858 and #1617-S.

777

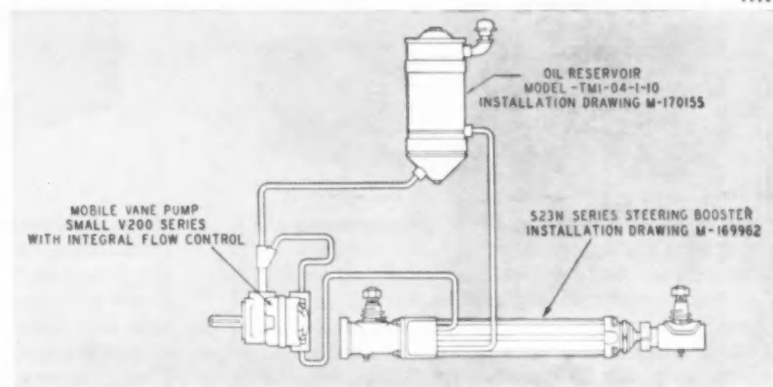


FIG. 4—Preferred circuit when using Vickers Series V200 Vane Pump with integral flow control and Vickers S23N Hydraulic Power Steering Booster. This model is without relief valve because the pump contains such a valve.

series of double pumps (See Fig. 2). Integral flow control is furnished in the small-volume section used for power steering. The large-volume section, in conjunction with Vickers multiple unit valves is used for operating the vehicle's tools.

Both the single and double pumps with integral flow control have all the features and characteristics responsible for the outstanding popularity of Vickers Vane Type Pumps. Higher efficiency means more work from less power. Hydraulic balance eliminates pressure induced bearing

## VICKERS INCORPORATED

DIVISION OF SPERRY RAND CORPORATION

Mobile Hydraulics Division  
ADMINISTRATIVE and ENGINEERING CENTER

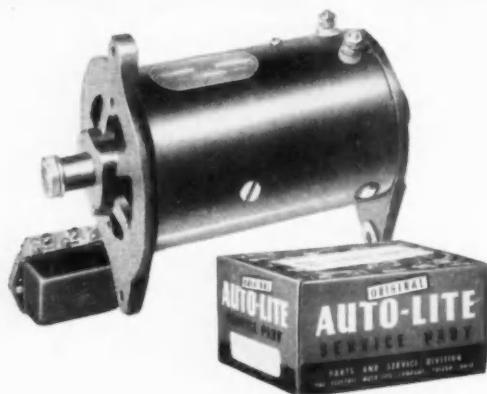
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**Less Down Time, Lower Maintenance Costs When You...**



**AUTO-LITE SPECIAL DUTY GENERATORS** with matching voltage regulators are designed specifically for vehicles that need high generator output at all speeds. Low cut-in and high output at low RPM prevent down time from discharged batteries caused by low-speed and stop-and-go operation. Gives completely safe operation at high speeds, too. Available for most 6- and 12-volt applications.



**AUTO-LITE STA-FUL BATTERIES** are proved by a two-million-mile test to be the finest batteries money can buy. The Sta-ful *extra liquid reserve* offers additional protection for rugged fleet operations. Available dry-charged or wet, Auto-Lite Sta-ful *needs water only 1/3 as often*. Heavy case construction and fibre-glass separators assure long life in the most severe service. A full line in either 6 or 12 volts.

**INCREASE PAYLOAD PROFITS WITH . . .**

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THE ELECTRIC AUTO-LITE COMPANY, TOLEDO 1, OHIO

**SPARK PLUGS  
BATTERIES  
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SERVICE PARTS**

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# Standardize on Auto-Lite!

**Ignition-engineered AUTO-LITE electrical equipment  
keeps your fleet operating at full profit**

Your fleet's service performance, and your profits, depend on the reliable operation of your vehicles' starting and ignition systems. For that reason you can't afford to take chances with

anything but the best when new parts are needed. Ignition-engineered Auto-Lite electrical equipment assures top performance and long service life in the toughest fleet operation.



**AUTO-LITE SPARK PLUGS** are ignition-engineered to give top performance in all types of vehicles. The complete line includes the Auto-Lite Transport Spark Plug with heavier insulator and over-sized electrodes for extra-heavy service . . . and the Auto-Lite Resistor Spark Plug with Power Tip that gives overhead-valve passenger car engines top performance and economy at all speeds.



**AUTO-LITE WIRE AND CABLE** is available for all cars and trucks. Auto-Lite "Neosheath" Spark Plug Wire has Neoprene insulation that resists heat, oil, ozone, and other harmful agents. Plastic and "Flex-trand" Primary Wire is available for every need. "Power Line" Cables have exclusive "Power Line" terminals with steel inner core that holds shape—keeps full contact for full power.

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AUTO-LITE NATIONAL FLEET ACCOUNTS  
PROGRAM that can mean substantial savings  
for you in electrical maintenance costs.**

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**THE ELECTRIC AUTO-LITE COMPANY**  
Toledo 1, Ohio

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# bodies

CCJ's Product Directory

## BODIES—continued

Miller & Co., A. C., 17 Courtland St., N. E., Atlanta, Ga.  
 Miller-Meteor Motor Car Div. Divco-Wayne Corp., Bellefontaine, Ohio (Specialized.)  
 Miller Trailers, Inc., 708 Third St., W., Bradenton, Fla. (Refrigerated, insulated, freight, van and stakes.)  
 Millington Truck Body Co., 8440 N. State St., Millington, Mich. (Insulated, milk, produce, meat, bakery and beer.)  
 Modern Auto Body Builders Co., 200 Walworth St., Brooklyn 6, N. Y. (Armored and refrigerated.)  
 Moline Body Co., 222 52nd St., Moline, Ill.  
 Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.  
 Montpelier Mfg. Co., Montpelier, Ohio. "Montpelier." (Parcel delivery and frequent stop.)  
 Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Utility and service.)  
 Morse Body Mfg. Co., 69 Howard St., Watertown 72, Mass.  
 Morryville Body Works, 813 S. Reading Ave., Boyertown, Pa. (Utility bodies.)  
 Murphy Body Works, Inc., Herring Ave., Wilson, N. C. (Also refrigerator & insulated.)  
 Nabors Co., W. C., Mansfield, La.  
 National Body Mfg. Co., Main St., Knightstown, Ind. (Airport bus for Chevrolet and Pontiac chassis.)  
 National Truck Equipment Co., 1611 Crystal Ave., Kansas City 3, Mo. (Power line and contractors.)  
 New Haven Carriage & Auto Works, 508 N. W. Everett St., Portland 9, Ore.  
 Niederhut Carriage Co., 3549 Walnut St., Denver 5, Colo.  
 Nogues Body Co., 1332 S. Ogden Drive, Los Angeles 19, Calif.  
 Novelty Carriage Works, Inc., 815 Second Ave., Spokane 4, Wash. (Also line, utility, service and bus.)  
 Ohio Body Mfg. Co., New London, Ohio.  
 Olsen & Son, R. F., 920 N. 24th St., Omaha, Neb. (Refrigerated and insulated.)  
 Olson Corp., J. B. E., 1740 Broadway, New York 19, N. Y. (Package delivery for Ford, Dodge, Chevrolet and GMC chassis; van.)  
 Olson & Son, Inc., Chas., 2946 Pillsbury Ave., Minneapolis, Minn.  
 Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa.  
 Oneida Products Div. Henney Motor Co., Canastota, N. Y. (Steel, aluminum and bus.)  
 Parsons Engineering Corp., 4590 Beidler Rd., Willoughby, Ohio. (Public service.)  
 Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn. Pa.  
 Perfection Steel Body Co., S. East St., Gallion, Ohio.  
 Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis. (Fire engine.)  
 Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.  
 Providence Body Co., 750 Wellington Ave., Cranston, R. I. (Also van.)  
 Quitslund Bodies & Equipment, P. O. Box 396, North Bend, Wash. (Also bus.)  
 R. B. Co., Guinotte & Euclid Sts., Kansas City 20, Mo. (Lumber roll-off.)  
 Reading Body Works, Inc., 420 Gregg Ave., Reading, Pa. (Utility line & line construction.)  
 Rehberger & Son, Inc., Arthur, 316 Ferry St., Newark 5, N. J. (For cement block and brick industry.)  
 Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal.  
 Roadway Mounting & Equip. Co., 21177 Mound Rd. (P. O. Box 164), Van Dyke, Mich. (Stake.)  
 Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39, Mass. (Refrigerated and insulated.)  
 Rock Hill Body Co., W. Main St., Rock Hill, S. C.  
 Santeler Bros., 950 E. Main St., Columbus 5, Ohio (Refrigerated, van, stake, etc.)  
 Scammell & Sons, 116 Quincy Ave., Quincy 69, Mass.  
 Schayer & Badinger, Inc., 2841 Tchoupetoulos St., New Orleans 15, La. (Bottlers', deck and closed panel.)  
 Schmitt & Son, Inc., John V., 314 14th St., S.E., Washington 3, D. C.  
 Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa. (Refrigerated or insulated.)  
 Servall Truck Body Mfg. Co., 4838 Cermak Rd., Cicero, Ill.

Sharpville Steel Fabricators, Inc., Sharpville, Pa. (Fire apparatus, rescue, emergency and squad trucks.)  
 Sherman & Co., Earl, 2526 Wood St., Oakland 7, Cal. (Bakery & refrigerated.)  
 Shop of Siebert Associates, Inc., Waterville, Ohio (Bus.)  
 Silver Body Works, Inc., 78 Ingraham St., Brooklyn 37, N. Y.  
 Soffe & Son, Morris, 170 W. Berks St., Philadelphia 22, Pa. (Also refrigerated.)  
 Specialty Engineering Co., Torredale Ave. & Pennypack St., Phila. 36, Pa. (Bottlers'.)  
 Stahl Metal Products, Inc., 3490 W. 140th St., Cleveland 11, Ohio. (Utility.)  
 Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif.  
 Steel Products Co., P. O. Box 1159, Savannah, Ga. (Aluminum.)  
 Steffen Body Co., O. F., 613 W. Seventh St., Sioux City 3, Iowa.  
 Stewart Steel Products, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y. (Refrigerated, transportation, van, custom built, platform and stake.)  
 Stoughton Cab & Body Co., 408 E. South St., Stoughton, Wis. (Van, stake and refrigerated.)  
 Strick Trailers Div., Fruehauf Trailer Co., 5604 N. Broad St., Philadelphia 11, Pa.  
 Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio. (Utility.)  
 Superior Coach Corp., E. Kilby St. & D. T. & I. R. R., Lima, Ohio. (Service car.)  
 Swab Wagon Co., 21 S. Callowhill St., Elizabeth, Pa. (Refrigerated & chick vans.)  
 Swift All-Steel Body Co., 106 Hoyt St., Saginow 29, Mich.  
 Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.  
 Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash. (Also bus.)  
 Thomas Car Works, Inc., Perley A., High Point, N. C. (Bus.)  
 Thompson Trailer Corp., 2 Old Court Road, Pikeville, Md. (Aluminum public utility, package delivery and flat bed.)  
 Thornton Mfg. Co., 10th & Montgomery Ave., Phila., Pa.  
 Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.  
 Time Saver Body Co., 3035 E. Grand Blvd., Detroit 2, Mich.  
 Traffic Body Co., 5501 N. 2nd St., St. Louis, Mo. (Stake and panel.)  
 Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa.  
 Travelodge Corp., 65 N. Madison St., Tulsa, Okla. (Wood and steel.)  
 Triangle Body Works, 2012 Woughton Rd., Winston-Salem 6, N. C. (Stake and van.)  
 Truck & Trailer Industries, Inc., 611 Jackson Ave., New York 55, N. Y.  
 Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. (Utility.)  
 Truck Engineering Corp., 1255 W. 70th St., Cleveland 2, Ohio.  
 Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash. (Steel flat deck.)  
 Twin Coach Co., 790 Stow St., Kent, Ohio.  
 Union City Body Co., W. Pearl St., Union City, Ind. (Parcel delivery for GMC, Chevrolet, Ford and Dodge.)  
 Unisteel Body, Div. of Hercules-Galion Products, Inc., 605 W. Market St., Gallion, Ohio. (Steel & aluminum van.)  
 Utility Body Co., 1530 Wood St., Oakland 7, Calif.  
 Utility Trailer Mfg. Co., P. O. Box F-1, La Puente, Calif.  
 Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis. (Utility line construction.)  
 Veenema & Wiegner, Inc., 241 N. Tenth St., Paterson 2, N. J.  
 Wade & Dunton, Inc., 686 Main St., Lewiston, Maine. (Custom built.)  
 Wall Mfg. Co., 636 S. Stratford Rd., Winston-Salem, N. C.  
 Walsh Body Sales Corp., 92-96 Prospect St., Somerville 43, Mass.  
 Ward Body Works, Inc., 805 Harkrider St., Conway, Ark. (School and passenger bus.)  
 Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y. (Aluminum.)  
 Wayne Works, Inc., 1500 N. F St., Richmond, Ind. (Bus.)  
 Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivera, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.)  
 Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.  
 Weld-Built Body Co., 5903 Preston Court, Brooklyn 34, N. Y. (Wreckers.)

Wentworth & Irwin Inc., 123 N. E. Oregon St., Portland 14, Ore.  
 White Metal Rolling & Stamping Corp., White-light Magnesium Div., 376 Lafayette St., New York 3, N. Y.  
 Williamson Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah.  
 Winter-Weiss Co., 2091 Blake St., Denver 5, Colo.  
 Wright Co., Thomas, 185 Dey St., Jersey City 6, N. J.  
 Yancey Bros., 110 Jackson St., N. E., Atlanta, Ga.  
 York-Hoover Corp., Body Div., Wheatfield St. & M. P. R. R., York, Pa. (Also public utility.)

## BODIES, Commercial, Prefabricated

Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.  
 Black & Sons, Inc., Adam, 276 Tonnelle Ave., Jersey City 6, N. J.  
 Brown Trailers, Inc., Box 54, Spokane 10, Wash. (Aluminum.)  
 Brunswick Body Works, U. S. Route 1, New Brunswick, N. J.  
 De Hart & Son, H. A., Crown Pt. Rd., Thorofare, N. J.  
 Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.  
 Gichner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.  
 Hews Body Works, 87 St. John St., Portland 4, Maine  
 Lindsay Structure, Inc., 5000 Dempster St., Skokie, Ill. (Truck and trailer.)  
 Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.  
 Morrison Service Body Div., Morrison Steel Products, Inc., 681 Amherst St., Buffalo 7, N. Y.  
 Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa. (Sections.)  
 Servall Truck Body Mfg. Co., 4838 Cermak Rd., Cicero, Ill.

## BODIES, Dump

Aluminum Body Corp., 1600 W. Washington Blvd., Montebello, Calif.  
 Anthony Co., Stretator, Ill.  
 Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.  
 Baughman Mfg. Co., Shipman Rd., Jerseyville, Ill. (Self-unloading.)  
 Black & Sons, Inc., Adam, 276 Tonnelle Ave., Jersey City 6, N. J.  
 Clark Co., H. M., Union, Maine.  
 Convento Mfg. Co., Third & Green Sts., Cambridge City, Ind.  
 Cook Bros. Equip. Co., 3334 San Fernando Rd., Los Angeles 65, Calif.  
 Cresci, A. & Son, Boulevard & Grape Sts., Vineland, N. J.  
 Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.  
 Dempster Bros., Inc., Box 3127, Knoxville, Tenn. (Detachable containers.)  
 Easton Car & Construction Co., Liberty & Holly Sts., Easton, Pa. (Heavy duty.)  
 Feigelson Co., Alex, 500 S. 4th St., Beaumont, Tex.  
 Gar Wood Industries, Inc., Wayne, Mich. (Garbage and rubbish collection unit.)  
 Gate City Steel-Boise, Inc., 4000 Warm Springs Ave., Boise, Idaho.  
 General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.  
 Gichner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.  
 Hell Co., 3000 W. Montana St., Milwaukee 1, Wis.  
 Hercules Galion Products, Inc., Gallion, Ohio.  
 Independent Iron Works, Eighth & Pine Sts., Oakland 20, Calif.  
 Jensen's Body Shop, Phillips, Wis.  
 Lang Co., 267 W. First South St., Sale Lake City 10, Utah.  
 Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
 Marion Metal Products Co., Cheney Ave., Marion, Ohio.  
 Mayer Body Corp., Paulson & Auburn Sts., Pittsburgh 6, Pa.  
 Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.  
 National Truck Equipment Co., 1611 Crystal Ave., Kansas City 3, Mo.  
 Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn. Pa.  
 Perfection Steel Body Co., S. East St., Gallion, Ohio. (Steel and aluminum.)  
 Press' Sons, Inc., Jacob, 501 W. 33rd St., Chicago 16, Ill.

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Here's a  
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**HOT OR COLD...**

**HIGH OR LOW...**

"it's all in a days work" with  
**CLEVITE 77\*** bearings

Fleet operators have learned by experience that no service is too severe for long-mileage Clevite 77 engine bearings.

Here's a typical report from a large West Coast truck line using Clevite 77's exclusively:

"Our heavily loaded trucks often leave (elevation 4,000 feet) in 20° below zero weather, climb over a mountain pass (elevation 8,000 feet) where the temperature is 30° below zero, and then down to a valley (elevation 200 feet) where the temperature is 100° above, or more".

Rapid climbing and frequent up and down shifting, to say nothing of extremes in temperature, demands the plus performance and high-duty stamina of Clevite 77 bearings. Your nearby N.A.P.A. jobber offers complete, fast service.



*Your N.A.P.A. Jobber  
is a Good Man  
to Know!*



FEET ABOVE  
SEA LEVEL

8,000

-30°F

6,000

4,000

-20°F

2,000

+100°F

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**Monmouth**  
**ENGINE BEARINGS**



**CLEVITE SERVICE** • The Cleveland Graphite Bronze Co. • Division of Clevite Corporation, Cleveland, Ohio, U.S.A.

# bodies to brakes

## BODIES—continued

Providence Body Co., 750 Wellington Ave., Cranston, R. I.  
 Roadway Mounting & Equip. Co., 21177 Mound Rd., Van Dyke, Mich.  
 Roehl Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo.  
 Schnabel Co., S., 10 & Muriel Sts., Pittsburgh 3, Pa.  
 Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Refuse collection.)  
 Standard Auto Body Co., 4900 S. Soto St., Los Angeles 58, Calif. (Hydraulic.)  
 Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.  
 Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.  
 Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.  
 Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.  
 Truck Engineering Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.  
 Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.  
 Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y.  
 Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash.  
 Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.  
 Williamson Body & Equipment Co., 9th and Wall Sts., Ogden, Utah. (Aluminum and steel.)

**BODIES, TANK.** See Tanks, Trailer and Truck

**BODY HOISTS.** See Hoists, Truck Body

## BODY PARTS, Pre-Shaped

(See also Hardware, Truck Body)

Annick Auto Body Parts Co., 23675 Mound Rd., Van Dyke, Mich.  
 Bath & Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.  
 Binkley Mfg. Co., Warrenton, Mo.  
 Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.  
 Cook Metal Works, 337 S. Campbell Ave., Mishawaka, Ind. (Roof caps for cabs, buses, trucks and trailers.)  
 Cutler Metal Products Co., 1025 Line St., Camden, N. J.  
 Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio.  
 Edwards Co., Inc., O. M., Syracuse 4, N. Y. (Insulated window.)  
 Hart Metal Products Corp., 3306 Hammond St., Elkhart, Ind. (Corner posts, roof bows and caps, rut rails, etc.)  
 Hill Auto Body Metal Co., 700 W. 6th St., Cincinnati, Ohio.  
 Holan Corp., J. H., 4100 West 150th St., Cleveland 11, Ohio.  
 Hutchins Mfg. Co., 9728 Breckenridge Ave., St. Louis 14, Mo. (Panels, etc.)  
 Indianapolis Power Hammer Works, 309 W. Maryland St., Indianapolis, Ind.  
 Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio.  
 Kirk & Blum Mfg. Co., 2858 Spring Grove Ave., Cincinnati 25, Ohio.  
 Lewisohn Sales Co., Inc., 4001 Dell Ave., No. Bergen, N. J.  
 Lindsay Structure, Inc., 6000 W. Dempster St., Skokie, Ill.  
 London Vault Co., London, Ohio. (Braces.)  
 Metalcraft Engr. Corp., 1051 W. Peachtree St., N. E., Atlanta 5, Ga.  
 Met-L-Wood Corp., 6755 W. 65th St., Chicago 88, Ill.  
 Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill.  
 Miner, W. H., Inc., Rookery Bldg., Chicago, Ill. (Door hinges.)  
 Monroe Mfg. Co., 2525 S. Dort Highway, Flint 7, Mich. (Platforms.)  
 Parish Pressed Steel Corp., Robeson & Weizer Sts., Reading, Pa.  
 Randall Co., 6000 Spring Grove Ave., Cincinnati 32, Ohio. (Roof bows.)  
 Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio.  
 Servwell Products Co., 6519 Euclid Ave., Cleveland 5, Ohio. (Fender braces and bolts.)  
 Youngstown Steel Car Corp., Niles, Ohio. (Dressed channels, presswork.)

## BOLTS, Blind

(Advertiser Only)

Southco Div., South Chester Corp., 228 Industrial Highway, Lester, Pa.

## BONDERS, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
 Bonding Equipment Corp., 633 40th St., Union City, N. J.  
 Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. (Ovens.)  
 Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.  
 Grizzly Mfg. Div. of Maremont Automotive Products, Inc., 700 W. Caroline St., Paulding, Ohio.  
 Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill.  
 Lapeer Mfg. Co., 3056 Davidson Rd., Lapeer, Mich.  
 Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.  
 Permafuse Corp., 675 Main St., Westbury, N. Y.  
 Westbrook Industries, Inc., 140 Malvern St., Newark 6, N. J.

**BOOSTERS, BRAKE.** See Brakes, Vacuum BOOSTERS, STEERING, See Gears, Steering, Booster Units

## BOOTHS, Paint Spraying

Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.  
 Black Mfg. Co., 70 Okner Parkway, Livingston, N. J.  
 Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.  
 De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.  
 M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.  
 Mahon Co., R. C., 6565 E. Eight Mile Road, Detroit 34, Mich.  
 Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich.  
 Pasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.  
 Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich.  
 Schmieg Industries, Inc., 29330 Sherwood St., Detroit 34, Mich.  
 Spray Engineering Co., 114 Central St., Somerville 45, Mass.  
 Young & Bertke Co., 2212 Breck St., Cincinnati 22, Ohio.

**BORING BARS.** See Tools, Cylinder Re-boring BORING MACHINES, See Machines, Boring BRAKE Drums, See Drums, Brake

## BRAKE LEVERS, Emergency

Orschelin Brake Lever Mfg. Co., 335 N. Wilhams St., Moberly, Mo. (Emergency brake lever.)  
 Power Brake Equipment Company, 1632 S.E. 11th Ave., Portland 14, Ore.

## BRAKE LINING, See Lining, Brake

**BRAKE LINING GRINDERS.** See Grinders, Brake Lining and Shoe

**BRAKE LOCKS.** See Locks, Brake, Hill Holding

**BRAKE PARTS.** See Parts, Brake

**BRAKE RELINING MACHINES.** See Machines, Brake Relining; also Bonders, Brake Lining

**BRAKE SHOES.** See Shoes, Brake

**BRAKE VALVES.** See Valves, Air Brake; Brakes, Air; Brakes, Emergency Systems and Valves

## BRAKES, Air

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich. (Disc.)  
 Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Also accessory units for trucks and buses.)  
 Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.  
 Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio.  
 Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.  
 Power Brake Equipment Company, 1632 S.E. 11th Ave., Portland 14, Ore.  
 Shuler Axle Co., Inc., Louisville, Ky.

## CCJ's Product Directory

Timken-Detroit Brake Div., Rockwell Spring & Axle Co., Ashtabula, Ohio.  
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

## BRAKES, Compression, Exhaust

Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.

## BRAKES, Electric

Warner Brake & Clutch Co., Beloit, Wis. (Truck.)

## BRAKES, Emergency, Systems & Valves

(See also Brakes, Air)  
 Airbrake Accessories, Inc., 155 N. Ada St., Chicago 7, Ill. (Valve.)  
 Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
 Berg Mfg. & Sales Co., Inc., 1712-14 S. Michigan Blvd., Chicago 16, Ill.  
 Eveready Emergency Brake Co., Inc., Investment Bldg., Pittsburgh 22, Pa.  
 Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio. (Hydro-Air dual system.)  
 George Mfg. Co., 10 W. Harvey St., Philadelphia, Pa. (Valve, check & line.)  
 K & B Mfg. Co., 17 E. Reno St., Oklahoma City, Okla.  
 Keehn-O Mfg. Co., 1709 Cleveland Ave., Santa Rosa, Calif. (Valve.)  
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (System.)  
 The McKee Engineering Co., Corry, Pa.  
 Midland Steel Products Co., 2641 E. Milwaukee Ave., Detroit 11, Mich.  
 Minnesota Automotive Inc., 1101 North Front, Mankato, Minn.  
 Monroe Standard, Inc., Wyandot Bldg., Gallon, Ohio. (Warning device.)  
 Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.  
 Robinson Products, Inc., 16550 Wyoming Ave., Detroit 21, Mich.  
 Seale, Homer T., 5330 Alhambra Ave., Los Angeles 32, Cal.  
 Talco Engineering Co., Inc., 2685 State St., Hamden, Conn.  
 Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum reserve tank.)  
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
 Warner Electric Brake & Clutch Co., P. O. Box 620, Beloit, Wis.

## BRAKES, Hydraulic

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. (Disc.)  
 Bendix Products Div., Bendix Products Corp., 401 N. Bendix Drive, South Bend 20, Ind.  
 Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio.  
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.  
 Martin Co., Glenn L., Baltimore 3, Md.  
 Minnesota Automotive Inc., 1101 North Front, Mankato, Minn.  
 Timken-Detroit Brake Div., Rockwell Spring & Axle Co., Ashtabula, Ohio.  
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

## BRAKES, Mechanical

American Chain & Cable Co., Automotive & Aircraft Div., 601 Stephenson Bldg., Detroit 2, Mich.  
 Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. (Disc.)  
 Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.  
 Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.  
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.  
 Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

## BRAKES, Trailer

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.  
 Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
 Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 9, Ohio.



Beveled Chrome-Vent Rings in Hastings 2C Chrome sets are covered by U. S. Patent Nos. 2148997, 2511874, 2565042, 2712971

## Wondering about the right Chrome Set?

**Just remember this: Only Hastings 2C Chrome sets have oil rings beveled to seat 3 to 4 times faster than ordinary chrome oil rings.**

Beveled rails mean less area to wear-in, less time for break-in. It's that simple.

And, you get oil control *right now* to last the life of the job. Chrome-Vents make immediate fineline contact with any cylinder wall—tapered, out-of-round or re-bored.

In short, Chrome-Vents get you results fast—to last. When you install Hastings rings—the product of replacement specialists—you can be sure of a good job.

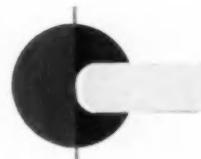
**HASTINGS MANUFACTURING COMPANY • HASTINGS, MICHIGAN**  
Hastings Ltd., Toronto  
*Piston Rings, Casite, Wear Reducer, Filters, Spark Plugs*

**Tough** on oil-pumping  
**Gentle** on cylinder walls



### CONVENTIONAL CHROME RAIL

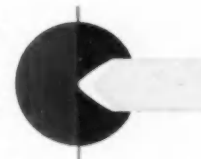
originated by Hastings . . .  
now replaced by Hastings  
exclusive Beveled Chrome



## Beveled Chrome-Vent

### BEVELED CHROME RAIL

makes fineline contact with  
cylinder wall for a faster seat.  
Less area to wear-in means  
less time to break-in.



**HASTINGS**

**Beveled Chrome-Vent  
Piston Rings**

# brakes to buses

CCJ's Product Directory

## BRAKES—continued

Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.  
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif. (Mechanical.)  
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.  
Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.  
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.  
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Mechanical, vacuum or air.)  
Spencer Safford Loadcraft, Inc., Augusta, Kan.  
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala. (Vacuum or air.)  
Timken-Detroit Brake Div. Rockwell Spring & Axle Co., Ashtabula, Ohio. (Air and hydraulic.)  
United Mfg. Co., 3637 W. 56th St., Cleveland 2, Ohio. (Hydraulic.)  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Air.)  
Warner Brake & Clutch Co., Beloit, Wis. (Electric.)

## BRAKES, Vacuum Power

Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.  
Fawcick Brake Div., Fawcick Corp., 9921 Clinton Rd., Cleveland 9, Ohio.  
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.  
Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.  
Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.  
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

**BREAKAWAY VALVES.** See Brakes, Emergency Systems and Valves  
**BREAKER ARMS.** See Parts, Ignition  
**BREAKER POINTS.** See Points, Ignition

## BREAKERS, Circuit

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
Bulldog Electric Products Co., 7619 Jos Campau Ave., Detroit 32, Mich.  
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."  
F & B Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.  
Heinemann Electric Co., Pa. Ave. & Plum St., Trenton 2, N. J.  
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio  
Littlefuse, Inc., 4757 Ravenswood Ave., Des Plaines, Ill.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.  
Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex.  
Spencer Thermostat Div., Metals & Controls Corp., 34 Forest St., Attleboro, Mass.  
Square D Co., 6060 Rivard St., Detroit 11, Mich.  
Underwriters Safety Device Co., 4642 N. La-mon St., Chicago 30, Ill.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh, Pa.

## BRUSHES, Carbon Removing

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Herold Mfg. Co., 3927 Clark Ave., Cleveland 9, Ohio.  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Manufacturers Brush Co., 12501 Elmwood Ave., Cleveland, Ohio.  
Miller Co., L. B., 394 State St., Stamford, Conn.  
Millers Falls Co., Greenfield, Mass.  
Milwaukee Brush Mfg. Co., 2326 N. 30th St., Milwaukee 45, Wis.

Morris Co., C. W., 10628 Cloversdale Ave., Detroit 4, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland 14, Ohio.  
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md.  
Rinck-Mellwaine, Inc., 15 Hudson St., New York, N. Y.  
Snap-On Tools Corp., 3046 28th Ave., Kenosha, Wis.  
Thor Power Tool Co., 175 State St., Aurora, Ill.  
Wilke Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo.  
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

**BRUSHES, Fountain.** See Washers, Fountain Brushes & Mops

## BRUSHES, Generator, Horn and Starter

American Motor Products Co., Fond du Lac, Wis.  
Becker Brothers' Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. (Generator and starter.)  
Carbone Co., Myrtle Ave., Boonton, N. J.  
Echlin Mfg. Co., U. S. Route 1, Branford, Conn. (Generator and starter.)  
F & B Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Generator and starter.)  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Keystone Carbon Co., 1935 State St., St. Marys, Pa.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. (Generator and starter.)  
National Ignition Mfg. Co., 621 W. 23rd St., New York 11, N. Y.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Ohio Carbon Co., 12508 Berea Rd., Cleveland 11, Ohio.  
P. & D. Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Generator and starter.)  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Generator and starter; sole distributors. Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.  
Shurhit Products, Inc., 545 S. Market St., Waukegan, Ill. (Starter and generator.)  
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y. (Generator and starter.)  
Speer Carbon Co., St. Marys, Pa.  
Stackpole Carbon Co., Tannery St., St. Marys, Pa.  
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. (Generator and starter.)  
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y. (Generator and starter.)  
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City, N. Y.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Generator and starter.)  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 20, N. Y.

**BRUSHES, WASHING.** See Washers, Fountain Brushes and Mops.

## BUFFERS, Portable, Electric

Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.  
Chicago Pneumatic Tools Co., 6 E. 44th St., New York 17, N. Y. (Pneumatic.)  
Clark Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.

Thor Power Tool Co., 175 State St., Aurora, Ill.  
Wilson, Inc., K. R., Arcade, N. Y.

## BUFFERS, Tire, Electric

Albertson & Co., 3106 Lowell Ave., Sioux City, Iowa.  
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.  
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.  
Keel & Co., 55 W. Penn St., Philadelphia 44, Pa.  
Kehawke Mfg. Co., 718 S. Elliot St., Muncie, Ind.  
Reuland Electric Co., 3001 W. Mission Rd., Alhambra, Calif.  
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.  
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif.

**BULBS.** See Lamps, Bulbs, Miniature, Incandescent

## BUMPERS

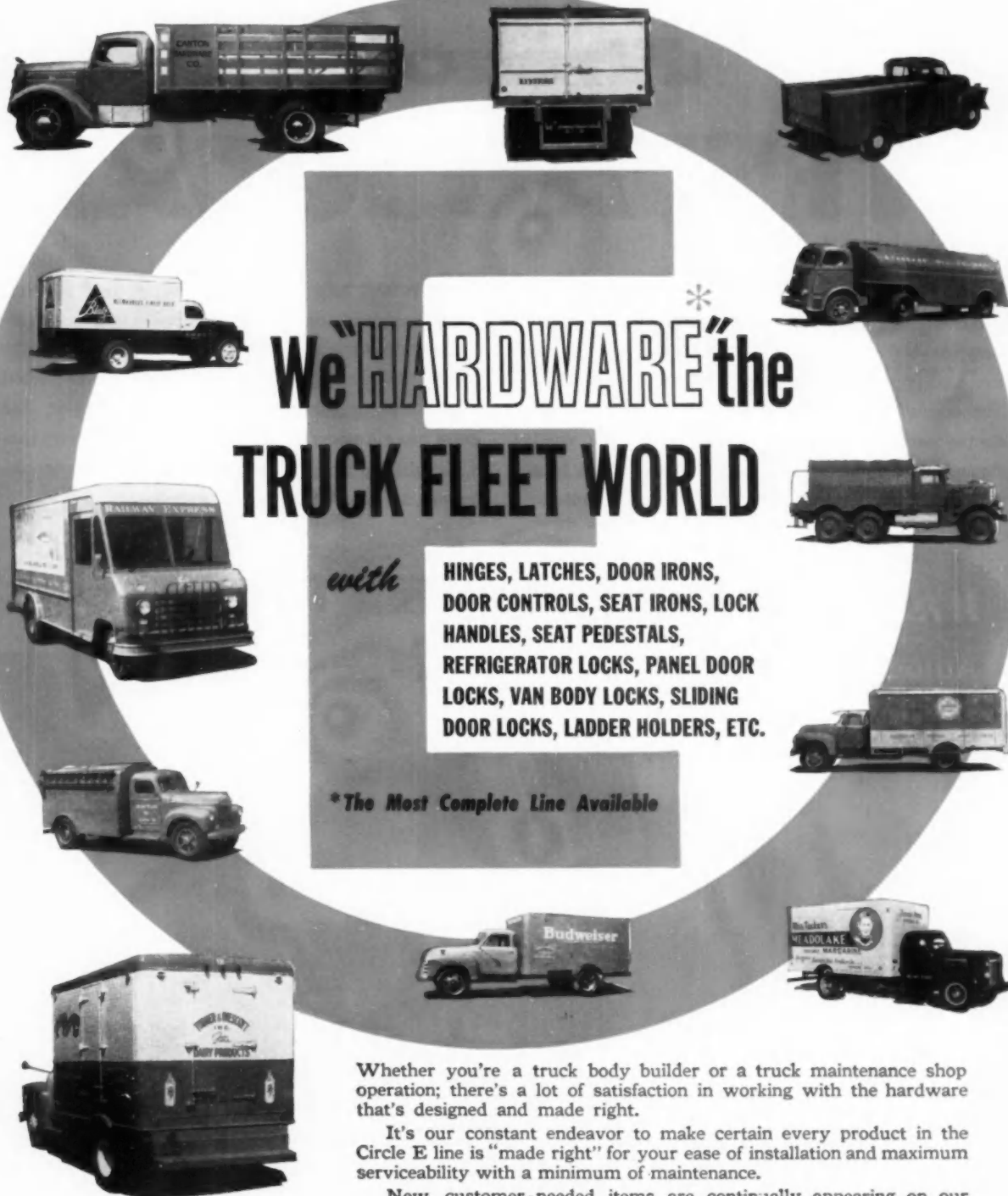
Bath Co., Cyril, Metal Form Div., 32280 Aurora Rd., Solon, Ohio.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Graves Mfg. Co., 200 Court St., Clinton, Ohio. (Bumper hitch.)  
Houdaille Industries, Inc., Chicago Div., 1455 W. 28th St., Chicago 9, Ill.  
Houdaille Industries, Inc., Detroit Div., 2660 E. Grand Blvd., Detroit 11, Mich.  
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. (Rear, for light trucks.)  
Michigan Bumper Corp., 740 Ann St., Grand Rapids, Mich.  
Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill. (Steel for trucks and buses.)  
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.  
Rheem Automotive Co., 4951 Alcoa Ave., Los Angeles 58, Calif.  
Rockwell Spring & Axle Co., 843 Fourth Ave., Cornelius, Pa.

## BUSES

Available Truck Co., 2501 Elston Ave., Chicago, Ill. (Gasoline or Diesel.)  
Beck & Co., C. D., Sidney, Ohio.  
Blue Bird Body Co., Fort Valley, Ga.  
Checker Cab Mfg. Corp., 2016 N. Fitcher St., Kalamazoo, Mich.  
Chevrolet Motor Div. of General Motors Corp., General Motors Corp., Detroit 2, Mich.  
Coachette Co., 11844 East Northwest Highway, Dallas 18, Texas.  
Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif. (Gasoline and Diesel.)  
Dodge Div. Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich. (School.)  
Federal Motor Truck Co., 834 N. Seventh St., Minneapolis 11, Minn.  
Fitzjohn Coach Co., Muskegon, Mich.  
Flexible Co., 326 N. Water St., Loudonville, Ohio.  
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.  
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill. (School.)  
Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J. (Gasoline and Diesel.)  
Marmion-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Trolley coaches.)  
Oneida Products Corp., Canastota, N. Y.  
Reo Motors, Inc., 1331 S. Washington St., Lansing, Mich. (Gasoline and diesel.)  
St. Louis Car Co., 8000 N. Broadway, St. Louis 15, Mo. (Electric, also trolley coaches.)  
Southern Coach Mfg. Co., Evergreen, Ala.  
Studebaker-Packard Corp., Studebaker Div., 635 S. Main St., South Bend 27, Ind. (Chassis only.)  
Superior Coach Corp., E. Kibby St. & D. T. & I. R. R., Lima, Ohio. (School.)  
Wayne Works, Inc., 1500 N. F St., Richmond, Ind.  
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

**BUSHINGS.** See Bearings and Bushings





# We <sup>\*</sup>HARDWARE<sup>\*</sup> the TRUCK FLEET WORLD

*with*

HINGES, LATCHES, DOOR IRONS,  
DOOR CONTROLS, SEAT IRONS, LOCK  
HANDLES, SEAT PEDESTALS,  
REFRIGERATOR LOCKS, PANEL DOOR  
LOCKS, VAN BODY LOCKS, SLIDING  
DOOR LOCKS, LADDER HOLDERS, ETC.

*\*The Most Complete Line Available*

Whether you're a truck body builder or a truck maintenance shop operation; there's a lot of satisfaction in working with the hardware that's designed and made right.

It's our constant endeavor to make certain every product in the Circle E line is "made right" for your ease of installation and maximum serviceability with a minimum of maintenance.

New, customer-needed items are continually appearing on our drawing boards. They eventually supplement our most extensive line, successfully and profitably utilized by the vast numbers of truck fleets rolling everywhere, today and tomorrow.

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# First on the job THE AUTOCAR

When the going is tough and slippery, Autocar 6-Wheelers make it every time. You can't beat them for bulling heavy loads through mud, sand, wet clay, deep snow and ice. And on soft roads they give you turnpike traction. The axles of 6-wheelers provide extra driving wheels—a double contact with the road that brings you safely through. There are several tandem axles to choose from with ratings from 34,000 to 70,000 pounds, and Autocar

engineers will help you choose the one that precisely meets your conditions of road and load. Then, in accordance with Autocar's custom-building practice, they design the rest of the unit to match—an integrated set of balanced heavy-duty components. The Autocar 6-Wheeler, like every other Autocar, has long life and stamina built into it. For the full story on the job these 6-wheelers can do for you, see your White-Autocar distributor.



## AUTOCAR TRUCKS

AUTOCAR DIVISION

The White Motor Company • Exton, Pa.



# after the storm

## 6-WHEELER

**THE AUTOCAR 6-WHEEL CEMENT MIXER**, capacities from  $5\frac{1}{2}$  to 14 cubic yards. Designed as an integrated, balanced unit, and specifically for the job.



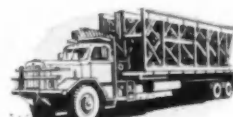
**THE AUTOCAR 6-WHEEL HIGHWAY TRACTOR** pulls heavy payloads on long hauls. A real profitmaker in those states where multiple axles permit additional payload.



**THE AUTOCAR 6-WHEEL LUMBER TRUCK** drives right into the felling area and picks up a profitable load, with the sturdy construction and braking power to control it.



**THE AUTOCAR 6-WHEEL OIL FIELD UNIT**, ideal for hauling heavy loads. A sure winner over a rough track and geared to keep up with traffic on the highway.



**to cans ■**

## CCJ's Product Directory

### CABINETS, Accessories and Parts

Angle Steel Stool Co., 56 Oak St., Plainwell,  
 Mich.  
 Aurora Equipment Co., Prairie St. at Cleve-  
 land Ave., Aurora, Ill.  
 Bay Products, Inc., 3001 N. 16th St., Phila-  
 delphia 2, Pa.  
 Berger Div. Republic Steel Corp., 1038 Belden  
 Ave., N. E., Canton 5, Ohio.  
 Bernard Franklin Co., Hedley & Bath Sts.,  
 Philadelphia 37, Pa.  
 Cutler Metal Products Co., 1029 Line St.,  
 Camden, N. J.  
 Frick-Gallagher Mfg. Co., 200 W. Second  
 St., Wellston, Ohio.  
 Gilbert & Barker, Mfg. Co., Springfield, Mass.  
 Helmer, W. C., 1907 Wabash Ave.,  
 Montpelier, Ohio.  
 Lyon Metal Products, Inc., 2931 Montgomery  
 St., Aurora, Ill.

### CABLE, Brake Control, with Conduit

Alloy Mfg. Co., 3267 S. Shields Ave., Chicago  
16, Ill. (Emergency.)  
American Choke & Casing Co., Automotive &  
Aircraft Div., 601 Stephenson Bldg.,  
Detroit 2, Mich.  
Bendix Products Div., Bendix Aviation Corp.,  
401 N. Bendix Drive, South Bend 20, Ind.  
Eis Automotive Corp., Middletown, Conn.  
Gwilliam Co., 360 Furman St., Brooklyn 2,  
N. Y.  
Midland Steel Products Co., Owosso Div., 490  
S. Chestnut St., Owosso, Mich.  
Supco Div., Lisle Corp., 805 E. Main St.,  
Clairinda, Iowa.

**CABLE, Ignition, Starting and Lighting**  
(In bulk, length on spools, rolls, etc.)

American Electric Cable Co., 181 Appleton St., Holyoke, Mass.

Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.

Berg Mfg. & Sales Co., 1712 S. Michigan Ave., Chicago 16, Ill. (Lighting for trailers.)

Cole-Heesee Co., 20 Old Colony Ave., Boston, Mass.

Crescent Co., Pawtucket, R. I.

Electric Auto-Lite Co., Toledo 1, Ohio.

Essex Wire Corp., 1601 Wall St., Fort Wayne 6, Ind.

Flexo Wire Div. of Copperweld Steel Co., Oswego, N. Y.

Frederic Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.

Jordan Electrical Mfg. Co., 222 N. 2 St., Minneapolis 1, Minn.

Lenhart Mfg. Co., Hamburg, Pa.

Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.

Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.

Packard Electric Div., General Motors Corp., Warren, Ohio.

Realflex Products Co., 335 38th St., Brooklyn 22, N. Y.

Royal Electric Corp., 95 Grand Ave., Pawtucket, R. I.

Sorenson Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.

Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.

Thompson-Newlyon Mfg. Co., 3651 S. Morgan St., Chicago 9, Ill.

Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.

United Motors Service, General Motors Bldg., Detroit 2, Mich.

United States Rubber Co., Rockefeller Center, 1280 Ave. of the Americas, New York 20, N. Y.

Velvac, Inc., 3530 W. Pierce St., Milwaukee 18, Wis.

Walker Bros., Automotive Wire & Cable Division & End Sts., Conshohocken, Pa.

White Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

White, Inc., J. M. 11th & Cambria Sts., Philadelphia 33, Pa.

Willard Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.

**CABLES, SPEEDOMETER, See Speedometer Cables**

### CABLES, Storage Battery

(Complete with terminals)

American Electric Cable Co., 181 Appleton St., Holyoke, Mass.

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.

Crescent Co., 20 Central Ave., Pawtucket, R. I.

East Penn Mfg. Co., Lyons Station, Pa.

Electric Auto-Lite Co., Toledo 1, Ohio.

Excelsior Wire Corp., 1601 Wall St., Fort Wayne, Ind.

Fredero Products, Inc., 36-08 83rd St., Long Island City 6, N. Y.

Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.

Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.

Monarch Insulated Wire Co., 178 Central Ave., Hackensack, N. J.

National Ignition Mfg. Co., 521 W. 23 St., New York 11, N. Y.

Packard Electric Div., General Motors, Dana St., Warren, Ohio.

Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.

Sorensen Mfg. Co., Pa. 32-31 57th St., Woodside 77, N. Y.

Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.

Thompson-Naylor Mfg. Co., 3551 S. Morgan St., Chicago 9, Ill.

Triple-Specialty Co., 2101 Walnut St., Chicago 12, Ill.

United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

Walker Bros., River & End Sts., Conshohocken, Pa.

Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

Whitehead J. M., 11th & Cambria Sts., Philadelphia 23, Pa.

Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.

### CABLES, Welding

(See also Hoss, Welding)

Air Reduction Sales Co., Socony-Mobil Bldg.,  
150 E. 42nd St., New York 17, N. Y.

American Steel & Wire Co., Rockefeller Bldg.,  
Cleveland 13, Ohio.

Belden Mfg. Co., 4647 W. Van Buren St.,  
Chicago 44, Ill.

Burdett Oxygen Co. of Cleveland, Inc., 2308  
Lakeside Ave., Cleveland 14, Ohio.

Crescent Co., 20 Central Ave., Pawtucket,  
R. I.

General Cable Co., 420 Lexington Ave., New  
York 17, N. Y.

Lindberg Electric Co., 22801 St. Clair Ave.,  
Cleveland 7, Ohio.

National Cylinder Gas Co., 840 N. Michigan  
Ave., Chicago, 11, Ill.

Roebling's Sons Corp., John A., 640 S. Broad  
St., Trenton, N. J.

Tivedent Products Co., Boston at Mosley Sts.,  
Wichita, Kan.

United Metal Craft Co., 800 Lowell St., Ypsilanti, Mich.

**CABS, Industrial Truck, Etc.**

Barkow Co., H., 153 N. Milwaukee St., Milwaukee 2, Wis.

### CABS, Truck Body, Wood and Metal

Allen Div. of Stolper Steel Products Corp.,  
314 Pilgrim Rd., Menomonee Falls, Wis.  
Autocar Div. of White Motor Co., Exton, Pa.  
(Metal; also sleeper.)  
Automotive Industries Corp., Owendale, Mich.  
(Steel sleeper.)  
Bedell Trailer Co., 1506 S. Flores St., San  
Antonio 4, Tex. (Steel sleeper.)  
Brandt Corp., Chicago 7, Ill.  
Haven St., Baltimore 24, Md.  
Chicago Mfg. Co., 411 N. Trumbull Ave., Chi-  
cago, Ill. (Metal; also sleeper.)  
Couse Mfg., Inc., 300 Passaic St., Newark 4,  
N. J. (Armored.)  
Crown Steel Products Co., Orville, Ohio.  
(Steel.)  
Cutlery Metal Products Co., 1025 Line St.,  
Camden, N. J.  
McLaughlin Body Co., 2430 Third Ave., Mo-  
line, Ill.

Masterbilt—See Orrville Metal Specialty Co.  
Montpelier Mfg. Co., Montpelier, Ohio.  
Orrville Body Co., Orrville, Ohio. (Also  
sleeper.)

Orville Metal Specialty Co., S. Elm St. & Penn Ave., Orrville, Ohio. (Steel sleeper; sole distributors to replacement trade, Benhoff Body & Equip. Corp., 2339 Scranton Rd., Cleveland 13, Ohio.)

Stolper Steel Products Corp., 300 Pilgrim Rd., Menomonee Falls, Wis. (Metal.)

Stoughton Cable & Body Co., 408 E. South St., Stoughton, Wis. (Sleeper.)

Tiptoe Bros., Inc., E. 40 Ave. & York St., Denver 5, Colo. (Steel sleeper.)

Truck Cab Mfrs., Inc., 1201 Finlay St., Cincinnati 14, Ohio. (Metal.)

Wichita Body & Equipment Co., 1926 N. Broadway, Wichita 12, Kansas. (Sleeper.)

Winters Steel Co., 2201 Blake St., Denver 5, Colo. (Steel.)

Youngstown Kitchens, Div. of American Standard, 605 S. Ellsworth St., Salem, Ohio

**CAGES, GUARDS, TIRE INFLATING, See**  
Guards, Tire Inflating

### CALIPERS and DIVIDERS

Ames Co., B. C., 12 Ames St., Waltham 54  
Mass. (Calipers.)  
Brown & Sharpe Mfg. Co., 235 Promenade St.  
Providence, R. I.  
Davis Boring Tool Div. of Giddings & Lewis  
Machine Tool Co., 475 S. Seymour St.  
Fond du Lac, Wis. (Micrometer calipers.)  
Dixon, Inc., William, 82 E. Kinney St., New  
ark 1, N. J.  
DoAll Co., 254 N. Laurel Ave., Des Moines  
Iowa  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Lufkin Rule Co., Hens Ave., Saginaw, Mich.  
Millers Falls Co., Greenfield, Mass.  
Peck, Stow & Wilcox Co., 217 Center St.  
Southington, Conn. (Dividers.)  
Rovtar Tool-Die Mfg. Co., 2250 S. Wood St.  
Chicago 8, Ill.  
Starrett Co., L. S., 1 Crescent St., Athol  
Mass.  
Swedge Gage Co. of America 19641 Haggert  
Ave., Dearborn 1, Mich. (Calipers.)  
Union Tool Co., 48 E. River St., Orange  
Mass.  
Woodworth Corp., C. B. Greene, N. Y. (In  
dicating Calipers.)

### CANS, Gasoline

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.  
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill.  
Dover Stamping Co., 427 Plymouth Ave., Fall River, Mass.  
Edward Can Co., 2332 W. Byron St., Chicago 18, Ill.  
Huffman Mfg. Co., Automotive Div., P. O. Box 310, Delphos, Ohio  
Justrite Mfg. Co., 2961 N. Southport Ave., Chicago 14, Ill.  
Lawson Co., H. H. Evans & Whateley St., Cincinnati 4, Ohio.  
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.  
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif.

### CANS, Oiling

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.  
Nesco, Inc., 947 W. St. Paul Ave., Milwaukee, Wis.  
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20 Conn.  
Wall Mfg. Co., P. O. Box 71, Grove City, Pa.

### CANS, Radiator Filling

Accurate Products, Inc., 720 E. Washington  
St., Indianapolis 2, Ind.  
Balcrank, Inc., Disney St. nr. Marburg, Cin-  
cinnati, Ohio.  
Lawson Co., F. H., Evans & Whateley St.  
Cincinnati, Ohio.





Hendrickson Model BD-270 Tractor available with 6-cylinder P&H Automotive Diesel power.

## Have you considered all the sources of Diesel power?

Take a quick review of your present diesel power. Are you fully "up" on the latest technical developments that are making the P&H Diesel the most talked about engine in the industry today—that are making possible lower operating costs, increased payload capacities, better road performance, less off-the-highway time for servicing and repairs?

Because of modern aluminum design, heavy-duty P&H Diesels are highly efficient—deliver far more horsepower per

lb. of weight than any other diesel. Mileage has exceeded 7 miles per gal. carrying 60,000 pounds G.C.W. Weight savings have made possible increases up to 1,000 lbs. in payload capacities.

These and other P&H innovations, such as the new mushroom connecting rod and piston assemblies, are making many old timers in the field reinventory their thinking. For complete information write Dept. 432-A, Harnischfeger Corporation, Milwaukee 46, Wisconsin.

# HARNISCHFEGER

DIESEL ENGINE DIVISION  
Crystal Lake, Illinois





*New light-duty Apache—Series 31 pickup*

*New Step-Van—One of three new Forward Control models in Apache Series*

## NEW 1958 CHEVROLET TRUCKS WITH

***Just look at all they offer  
that's new and better . . . and  
you'll see why these new Chevies  
are the fleetest, sturdiest,  
handsomest dollar-savers yet!  
Meet Chevrolet for '58!***

### THREE NEW MODEL LINEUPS!

It's the biggest, most versatile Task-Force fleet yet—with an appetite for work to match! Every model sports fresh, broad-shouldered styling. And there's new hard-pulling power in every weight class, too—from the handy, handsome pickups to strapping tandems with GCW ratings all the way up to 50,000 lbs.

Just name your job. Your Chevrolet dealer will gladly name the new Apache, Viking or Spartan model to do it faster, easier and more economically than any other truck on the road!

### NEW LIGHT-DUTY APACHES

Nifty, thrifty Apaches—built to outwork anything in their weight class—offer three completely new

**SEE THE LATEST EDITIONS OF THE "BIG WHEEL" IN TRUCKS—**



*New heavy-duty Spartan—Series 90, L.C.F. model*

*New medium-duty Viking—Series 60 cab and chassis*

## NEW HUSTLE! NEW MUSCLE! NEW STYLE!

Step-Vans equipped with walk-in bodies. The expanded lineup also includes high-capacity panels, pickups and four-wheel drive trucks—with a model tailored to take on your most troublesome delivery chores. There's new pep and power in any engine you pick, too—whether it's a 6 famous for economy or a short-stroke high-compression V8.

### NEW MEDIUM-DUTY VIKINGS

Hardy, hard-working Vikings roll in with nine brand-new models, offering new cab-to-rear-axle dimensions for improved semi-trailer, dump, stake and van-type operations. Options available on these and most other new models boost GVW ratings all the way to 21,000 lbs.—as high as many competitive heavyweights. Yet you get traditional Chevro-

let economy from high-compression engines that include the industry's most popular 6's and V8's packing up to 175 h.p.

### NEW HEAVY-DUTY SPARTANS

The robust Spartans make hauling history with the most revolutionary truck engine in decades—the Workmaster V8 with Wedge-Head design. The combustion chambers are in the cylinder block! Featured in Series 90 and 100 heavyweights, this 230-h.p. engine achieves a new high in efficiency. There's also an 18,000-lb. rear axle to go with it, an optional high-tonnage 9,000-lb. front axle and cast-spoke wheels on every model. Look over Task-Force 58 at your Chevrolet dealer's. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.

**1958 CHEVROLET TASK-FORCE TRUCKS!**



## caps to cement

CCJ's Product Directory

### CANS—continued

New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.  
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif.

CANVAS, See Fabric, Coated Cloth; also Covers, Trucks

### CAPS, Gasoline Tank, Locking

Badger Tool & Mfg. Co. 1501 W. Polk St., Chicago, Ill.  
Berkson Products Inc., 217 N. Desplaines St., Chicago 6, Ill.  
Dorman Products, 1004 Sycamore St., Cincinnati 2, Ohio.  
Eaton Manufacturing Company, Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio.  
Edelmann & Co., E. Wayne Metalcraft Div., 2332 Logan Blvd., Chicago 47, Ill.  
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
Knight-Morley Corp., 312 Garfield Bldg., 4612 Woodward Ave., Detroit 1, Mich.  
Norlipp Co., 6925 S. Lowe Ave., Chicago 21, Ill.  
Riley Products Corp., 2749 N. Lincoln Ave., Chicago 14, Ill.  
Roylyn Inc., 620 Paula Ave., Glendale 1, Calif.  
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.  
Stant Mfg. Co., Inc., 1620 Columbia St., Connorsville, Ind.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohio.

### CAPS, Oil Filler

Dorman Products, 1004 Sycamore St., Cincinnati 2, Ohio.  
Stant Mfg. Co., 1620 Columbia St., Connorsville, Ind.

### CAPS, Radiator

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Pressure.)  
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind. (Pressure.)  
American Insulator Corp., New Freedom, Pa. (Composition.)  
Badger Tool Mfg. Co., 1501 W. Polk St., Chicago, Ill.  
Berkson Products, Inc., 217 N. Desplaines St., Chicago 6, Ill. (Pressure and non-pressure.)  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Pressure.)  
Eaton Mfg. Co., Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio. (Pressure.)  
Edelmann & Co., E. Wayne Metalcraft Div., 2332 Logan Blvd., Chicago 47, Ill. (Pressure.)  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Pressure.)  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Pressure and underhood.)  
Namco, Inc., 333 31st Ave., Bellwood, Ill.  
Norlipp Co., 6925 S. Lowe Ave., Chicago 21, Ill.  
Rockford Metal Products Inc., 716 Cedar St., Rockford, Ill.  
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.  
Stant Mfg. Co., 1620 Columbia St., Connorsville, Ind. (Standard and pressure.)  
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### CAPS, Tire Valve

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.  
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.  
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors of Tru-Flate Inc., 92nd Ave., Oakland 3, Calif.)  
Emvri Mfg. Co., 1705 Lincoln St., Evanston, Ill. (Automatic.)

G. M. Co., Mfg. Inc. 13-08 43rd Ave., Long Island City, L. I., N. Y.  
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.  
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.  
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.  
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

CARBON MONOXIDE INDICATORS, See Indicators, Corbon Monoxide

CARBON MONOXIDE REMOVING SYSTEMS, See Exhaust Gas Removing Systems

### CARBURETORS, Butane, Propane & LP-Gas

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Calif.  
Beam Products Mfg. Co., 3040 Rosslyn St., Los Angeles 65, Calif.  
Century Gas Equipment Co., 6855 E. Rosecrans, Paramount, Calif.  
Dix Mfg. Co., 3447 E. Pico Blvd., Los Angeles 23, Calif.  
Ensign Carburetor Co., 1551 E. Orangethorpe Ave., Fullerton, Calif.  
J & S Carburetor Co., 2634 N. Beckley St., Dallas 2, Tex.  
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

### CARBURETORS, Gasoline

Bendix Products Div., Bendix Aviation Corp., 401 N. Hendrix Drive, South Bend 20, Ind. (Aircraft and automotive for replacement sales.)  
Carter Carburetor Div. of ACF Industries, Inc., 2540 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)  
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (For equipment sales.)  
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.  
Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill.  
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.  
Tillotson Mfg. Co., Toledo, Ohio.  
United Motors Service, General Motors Bldg., Detroit 2, Mich.  
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

### CARBURETOR PARTS

Automotive Research & Mfg. Co., 1085 Iris Place, Westbury, N. Y.  
Bendix Products Div., Bendix Aviation Corp., 401 N. Hendrix Drive, South Bend 20, Ind. (For replacement sales.)  
Carter Carburetor Div. of ACF Industries, Inc., 2540 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)  
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. (For equipment sales.)  
Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.  
Hygrade Products Div., Standard Motor Products, Inc., 87-18 Northern Blvd., Long Island City 1, N. Y.  
Marvel-Schebler Products Div., Borg-Warner Corp., Decatur, Ill.  
Octa-Gane, 603 W. La Tunas Drive, San Gabriel, Calif. (Needles.)  
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.  
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.  
Precision Automotive Components Co., 7500 Devonshire St., St. Louis 19, Mo.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.  
Simmons Mfg. Co., Ashland, Ohio.  
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.  
Tillotson Mfg. Co., 761 Berdan St., Toledo 12, Ohio.  
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Combination carburetor and governor.)

### CARRIERS, Storage Battery

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Berkson Products, Inc., 217 N. Desplaines St., Chicago 6, Ill.  
Bishman Mfg. Co., Osseo, Minn.  
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.  
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Duro Metal Parts Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Five Star Mfg. Co., Box 149, Clarksdale, Miss.  
Houser Engng. & Mfg. Co., Bluffton, Ind.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kirspe Industries, Inc., Livingston, N. J.  
Loock & Co., R. J., 843 N. Gay St., Baltimore, Md.  
Murray Corp., E. Joppa Rd., Towson 4, Md.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Powercraft Corp., 2515 S. Wabash Ave., Chicago, Ill.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.  
Thompson-Neaylon Mfg. Co., 551 S. Morgan St., Chicago 9, Ill.  
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.  
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### CARRIERS, Tire

BEW Corp., 3055 E. 12th St., Los Angeles 23, Calif. (Continental type kit.)  
Bonzer-Western Corp., 8055 E. 12th St., Los Angeles 23, Calif. (Continental type kit.)  
Heil Co., 3000 W. Montana St., Milwaukee, Wis. (Licenses for trucks, buses and trailers for all U. S. except 11 western states.)  
Hutchison Co., 5931 St. Vincents Ave., Shreveport, La.  
Industrial Steel Tank & Body Works, Inc., 2533 Fourth St., Berkeley 10, Calif.  
Nash Bros. Co., 2125 Dewey Ave., Evanston, Ill. (For trucks and trailers.)  
Sudenga Iron Works, George, Iowa. (Side mounted, for pickup trucks.)

### CEMENT, Cast Iron

(For repairing cracks in castings)  
All-State Welding Alloys Co., 249-255 Ferris Ave., White Plains, N. Y.  
Blue Seal Metals Co., Sandston, Va.  
Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill.  
Sauereisen Cements Co., Sharpsburg Station, Pittsburgh 15, Pa.  
Watts-Wagner Co., 228 Frelinghuysen Ave., Newark 5, N. J.

CEMENT, GASKET, See Gasket Compounds

### CEMENT, Rubber, Liquid

Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich.  
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.  
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.  
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Goodrich Co., Industrial Products Div., B. F., 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.  
Gross Mfg. Co., 1711 California St., Monrovia, Calif.  
Hollingshead Corp., R. M. 540 Cooper St., Camden, N. J.  
Johns-Manville Dutch Brand Div., 7800 Woodlawn Ave., Chicago 19, Ill.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Moore & Co., Samuel, Mantua, Ohio.  
Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.  
Porter Mfg. & Supply Co., 2336 Sunset Blvd., Los Angeles 26, Calif. (Rubber to metal.)  
Pyroil Co., 122 N. Main St., La Crosse, Wis.



# MIDLAND

## Air Compressor Protects You Against Oil Passage, Carbon . . . Provides Dependable, Trouble-Free Service!

For air braking systems on trucks, trailers, or buses — or wherever compressed air is required — you'll get better, longer, *more dependable* performance from Midland Compressors.

Midland Compressors reduce oil passage to a minimum . . . so, no carbon, no headaches . . . In short, Midland Air Compressors have all the advantages anyone who needs compressed air could hope to have in *one* product: (1) less power re-

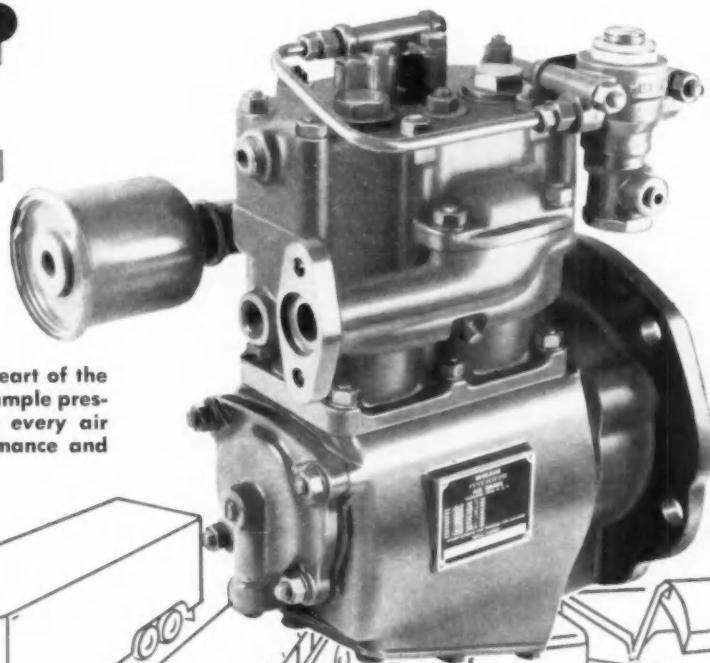
quired per cubic foot of air; (2) no oil-passing worries; (3) cooler operation; (4) governor mounted on compressor itself for simplicity; (5) lighter weight; (6) so easy to install; (7) maintenance a cinch (only 1 simple adjustment to control reservoir pressure range) . . . Man, what a compressor! Your nearest Midland Distributor (they're everywhere) will be happy to give you the complete story . . . or you may contact the factory direct.

### THE MIDLAND STEEL PRODUCTS COMPANY

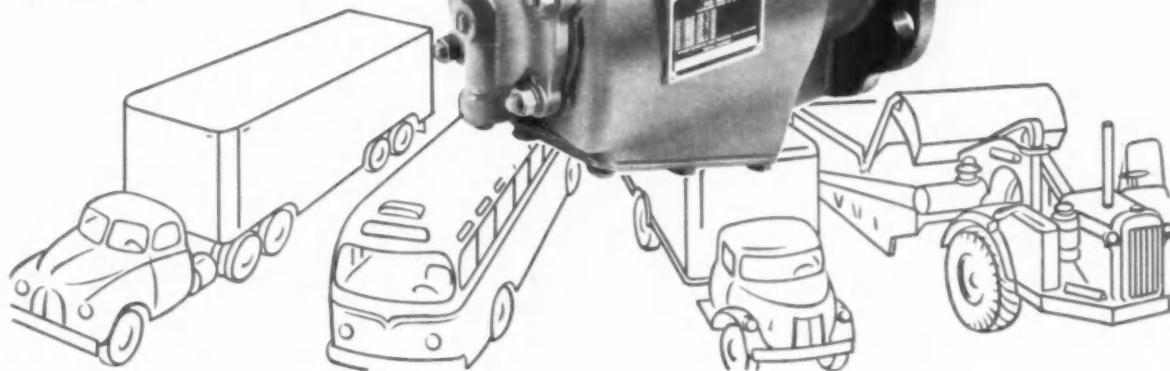
Owosso Division

Owosso, Michigan

Export Department: 38 Pearl Street, New York, N.Y.



**BIG MODEL 12**—the Heart of the air system—provides ample pressure and volume for every air need. Rugged performance and dependability!



# chains to clamps

CCJ's Product Directory

## CEMENT—continued

St. Clair Rubber Co., 440 Jefferson Ave., E., Detroit, Mich.  
Stay-Tite Products Co., 9400 Steinway Ave., Cleveland 4, Ohio.  
Union Bay State Chemical Co., 491 Main St., Cambridge, Mass.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Universal Chemical Div. R. M. Hollingshead Corp., 840 Cooper St., Camden, N. J.  
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.  
Western States Mfg. Co., 811 Main St., Sioux City, Iowa.

## CHAINS, Timing

Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.  
Chain Belt Co., 4733 W. Greenfield Ave., Milwaukee 1, Wis.  
D & H Mfg. Co., 2312 S. Indiana Ave., Chicago 16, Ill.  
Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.  
Hoof Products Co., 6648 S. Laramie Ave., Chicago 38, Ill.  
Lemco Products, Inc., 5400 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.  
Morse Chain Co. (Div Borg Warner Corp.), Ithaca, N. Y. (Sole distributor to replacement trade, Borg-Warner Service Parts Co., 310 S. Michigan Ave., Chicago 4, Ill.)  
Perfection Gear Co., 152nd St. & Pincennes Ave., Harvey, Ill.  
Ramsey Chain Co., Troy Rd., Albany, N. Y.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.

## CHAINS, Tire

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.  
Auto Master Corp., 980 S. Bayshore Blvd., San Mateo, Calif.  
Campbell Chain Co., York, Pa.  
Columbus-McKinnon Chain Corp., Tonawanda, N. Y.  
Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.  
Hodell Chain Co., Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 3, Ohio.  
Lloyd Chain Mfg. Co., 2000 E. First St., Marysville, Mo.  
McKay Co., 1005 Liberty Ave., Pittsburgh, Pa. (Steel.)  
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo.  
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.  
Republic Steel Corp., Bolt & Chain Div., 1970 Carter Rd., Cleveland 13, Ohio.  
Roll-O-Matic Co., Wyandotte St., Kansas City 5, Mo.  
Russell Mfg. Co. Inc., John M., 900 Rubber Ave., Naugatuck, Conn.  
St. Pierre Chain Corp., Frank St., Worcester, Mass.  
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.  
Southern Chain & Mfg. Co., 3207 Second Ave., Birmingham 4, Ala.  
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind.  
Thomas Co., 1645 Hennepin Ave., Minneapolis 3, Minn.  
Turner & Seymour Mfg. Co., 100 Lawton St., Torrington, Conn.  
United States Chain Co., 2240 S. Lumber St., Chicago 16, Ill.  
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.

CHAINS, ADJUSTERS, See Adjusters, Tire Chain

## CHARGERS, Battery

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Bulb and rapid types.)

Associated Equipment Corp., 5147 Natural Bridge Ave., St. Louis 15, Mo. (Rapid and slow types.)  
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo. (Bulb and rapid types.)  
Berg-Gibson Mfg. Co., 817 E. 17 St., Kansas City 8, Mo. (Rapid type.)  
Blitz Electric Co., 5713 Wentworth Ave., Chicago 21, Ill. (Bulb and rapid types.)  
Bogue Electric Mfg. Co., 52 Iowa Ave., Paterson 3, N. J.  
Christie Electric Corp., 3410 W. 67th St., Los Angeles 43, Calif. (Bulb and rapid types.)  
Electric Products Co., 1725 Clarkstone Rd., Cleveland 12, Ohio. (Motor generator type.)  
Electric Service Systems, Inc., 1330 Quincy St. N.E., Minneapolis 13, Minn.  
Exide Automotive Div., Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa. (Rapid and slow types.)  
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa. (Rapid and slow types.)  
General Electric Co., Apparatus Sales Div. 1 River Rd., Schenectady 5, N. Y. (Bulb and rapid types.)  
Grant Storage Battery Div., Electric Storage Battery Co., 226-28 N. Second St., Minneapolis, Minn.  
H & H Products Mfg. Co., P. O. Box 2333 Terminal Annex, Los Angeles 54, Calif. (Rapid type.)  
Hoyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J. (Bulb and rapid types.)  
Jordan Electric Mfg. Co., 222 N. 3 St., Minneapolis 1, Minn. (Bulb and rapid types.)  
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.  
Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Dept 7-114, Minneapolis 14, Minn. (Rapid and slow types.)  
Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 36, Ill.  
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Rapid type.)  
Motoraide Corp., 2400 Emerald St., Phila. 25, Pa.  
Motor Generator Corp., Troy, Ohio. (Motor generator type.)  
Peer, Inc., Charger Div., 1200 Milton St., Benton Harbor, Mich.  
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.  
Put Battery Charger Co., 1207 Castle St., Dallas, Texas.  
Quick Charge Inc., 170 N. E. 10th St., Oklahoma City, Okla. (Rapid and slow types.)  
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif. (Bulb and rapid types.)  
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio. (Bulb rapid & selenium types.)  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Rapid type.)  
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. (Selenium and bulb.)  
Westinghouse Electric Corp., 2 Gateway Center, Pittsburgh 30, Pa. (Motor generator type; copper oxide.)  
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio. (Bulb and rapid types.)  
Wilson, Inc., K. R., Arcade, N. Y. (Bulb and rapid types.)

## CHECKS, Door

Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.  
Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.

## CHOCKS, Wheel

Aldon Company, 3340 Ravenswood Ave., Chicago, Ill.  
Calumet Steel Castings Corp., 1642 Summer St., Hammond, Ind.  
Steinwach Safety Supply, 1571 S. Park Ave., Buffalo, N. Y.

## CHUCKS, Air, Tire Inflating

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.  
Amseco, Inc., 145 S. Monterey Ave., Villa Park, Ill.

Barmotive Products, Inc., 440 Peralta Ave., San Leandro, Calif.  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.  
Coronet Parts Mfg. Co., 883 Elton St., Brooklyn 8, N. Y.  
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.  
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors, Tru-Flate, Inc., 888 92nd Ave., Oakland 3, Calif.)  
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.  
Peters & Russell, Inc., 501 W. Liberty St., Springfield, Ohio.  
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.  
Romort Mfg. Co., Oakfield, Wis.  
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Wood Company, John H., Broadway & Woods St., Muskegon, Mich.

CIRCUIT BREAKERS, See Breakers, Circuit

## CLAMPS, Battery Hold Down

Accurate Products Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Berkson Prods., Inc., 217 N. Desplaines St., Chicago 6, Ill.  
Bishman Mfg. Co., Osseo, Minn.  
Callanan Mfg. Co., 221 Summer St., Lynn, Mass.  
Champ-Items, 6191 Maple Ave., St. Louis 14, Mo.  
Cuyahoga Spring Co., 10252 Berea Rd., Cleveland 2, Ohio.  
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Murray Corp., E. Joppa Rd., Towson 4, Md.  
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.  
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

## CLAMPS, Brake Cylinder, Hydraulic

Atmars Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Murray Corp., E. Joppa Rd., Towson 4, Md.  
Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y.  
Supco Div., Lisle Corp., 805 E. Main St., Clarinda, Iowa.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
Wilson, Inc., K. R., Arcade, N. Y.

## CLAMPS, Brake Lining

Adjustable Clamp Co., 425 N. Ashland Ave., Chicago 22, Ill.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio.  
Grigg Specialty Tools, 8103 Marbrisa Ave., Huntington Park, Calif.  
Miley Co., L. J., 15 S. Sangamon St., Chicago 7, Ill.  
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Cal.

## CLAMPS, Hose

Attwood Brass Works, Inc., 303 Douglas St., N. W., Grand Rapids, Mich.  
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
American Stamping Co., 310 E. Burnham St., Battle Creek, Mich.  
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.  
Arsoe Mfg. & Sales Co., 451 10th Ave., New York 18, N. Y.  
Breeze Corps, Inc., 700 Liberty Ave., Union, N. J.  
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.  
Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y.



### YOU'VE GOT TO HAND IT TO THE SERVICE DEPARTMENT!

KESTER ACID-CORE SOLDER has long been first choice with an overwhelming percentage of automotive service departments . . . over 50 years, in fact. We don't claim any particular "miracles" for this remarkable showing. It's

just that most auto men are well aware of Kester Solder's quality ingredients and manufacture, and they know that Kester won't let them down on the job. How about you, Mr. Serviceman; how's your stock of Kester Solder?

# KESTER SOLDER

*Company*

4205 Wrightwood Avenue, Chicago 39, Illinois • Newark 5, New Jersey, Brantford, Canada

Get These Quality Kester Products From Your Jobber: Kester Acid-Core Solder for general work; Plastic-Rosin or "Resin-Five" Core Solder for electrical systems and auto radio; Radiator Flux-Core Solder with a faster flowing alloy and more active flux.

# cleaners

CCJ's Product Directory

## CLAMPS—continued

Champ-Items Inc., 6191 Maple Ave., St. Louis 14, Mo.  
 Clancy, Inc., J. R., 1010 W. Belden Ave., Syracuse, N. Y.  
 Corbin Hose Clamp, Div. American Hardware Corp., 102 Washington St., New Britain, Conn.  
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
 Eaton Mfg. Co., Reliance Div., 25 Charles Ave., S.E., Massillon, Ohio.  
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Radiator; heater).  
 Garrett Co., George K., Torresdale Ave. at Talbut St., Philadelphia 36, Pa.  
 Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.  
 Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio.  
 Ideal Corp., 435 Liberty Ave., Brooklyn 1, N. Y.  
 Ingersoll-Rand Co., 11 Broadway, New York, N. Y.  
 Look & Co., R. J., 343 N. Gay St., Baltimore, Md.  
 Marman Products Co., 11214 Exposition Blvd., Los Angeles 64, Calif.  
 Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."  
 Mulcomroy Co., 54th & Jefferson Sts., Philadelphia, Pa.  
 Murray Corp., E. Joppa Rd., Towson 4, Md.  
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
 Rotar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
 Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
 Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.  
 Tinnerman Products, Inc., 8700 Brookpark Rd., Cleveland, Ohio.  
 Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.  
 United Steel & Wire Co., 27 Fonda Ave., Battle Creek, Mich.  
 Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.  
 Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., N. Y. 22, N. Y. (Heater).  
 Wittek Mfg. Co., 4305 W. 24th Place, Chicago 23, Ill.

## CLEANERS, Air, Carburetor

AC Spark Plug, The Electronic Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
 Bonzer-Western Corp., 3055 E. 12th St., Los Angeles 23, Calif.  
 Cyclone Filter Corp., 4401 W. North Ave., Chicago 39, Ill.  
 Dollinger Corp., 20 Center Pk., Rochester 3, N. Y.  
 Donaldson Co., 666 Pelham Blvd., St. Paul 14, Minn. (Oil).  
 Fram Corp., East Providence 16, R. I.  
 Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.  
 Purolator Prods., Inc., 970 New Brunswick Ave., Rahway, N. J.  
 United Specialties Co., United Air Cleaner Div., 8705 Cottage Grove Ave., Chicago 28, Ill. (Oil).  
 Vortex Co., 121 S. Alexander Ave., Claremont, Cal. (Oil bath).  
 Wix Corp., Gastonia, N. C.

## CLEANERS, Air, Crankcase Breather

AC Spark Plug Div., The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
 Fram Corp., East Providence 16, R. I.  
 Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.

## CLEANERS, Bus Interior (Systems)

Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill.

## CLEANERS, Carburetor, Chemical

Alsol Products Co., 123 Coit St., Irvington, N. J.  
 Brulin & Co., 2929 Columbia Ave., Indianapolis 7, Ind.

Choldun Mfg. Co., 331 East St., New Haven, Conn.  
 Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 36, Pa.  
 Curran Corp., S. Canal St., Lawrence, Mass.  
 Delta Chemical Co., 2885 Warford Pl., Memphis 1, Tenn.  
 Drew & Co., E. F., Automotive Chemicals Div., 15 E. 26th St., New York, N. Y.  
 Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.  
 Fine Organics, Inc., 211 E. 19th St., New York 9, N. Y.  
 Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.  
 Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.  
 Glister Co., 13 Barnard St., Hillsdale, Mich.  
 Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.  
 Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.  
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
 Kelite Corporation, 1250 N. Main St., Los Angeles 12, Calif.  
 Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.  
 Luboid Co., 3270 S. Third St., Milwaukee 7, Wis.  
 Magnus Chemical Co., 185 South Ave., Garwood, N. J.  
 Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.  
 Oakite Products, Inc., 19 Rector St., New York, N. Y.  
 Pennsylvania Refining Co., Gumout Div., 2686 Lisbon Rd., Cleveland 4, Ohio.  
 Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
 Rust Master Chemical Corp., 50 Creighton St., Cambridge, Mass.  
 Service Supply Co., 1115 Seventh St., Denver 2, Colo.  
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.  
 United States Avex Co., 1350 Maple St., Niles, Ohio.  
 V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.

CLEANERS, CHEMICAL, See Solvents, Oil, Carbon & Grease Removing

CLEANERS, COOLING SYSTEMS, See Flushers, Radiator and Block, Portable.

CLEANERS, DIFFERENTIAL and TRANSMISSION, See Flushers, Differential and Transmission

## CLEANERS, Driveway & Floor, Cement

Carey Mfg. Co., Philip Lockland, Cincinnati 15, Ohio.  
 Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.  
 Eagle-Picher Co., American Bldg., Central Parkway, Cincinnati 1, Ohio.  
 Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.  
 Flor-Dry Co., 181 University Ave., St. Paul 4, Minn.  
 Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.  
 Magnus Chemicals Co., Inc., 38 South Ave., Garwood, N. J.  
 Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
 Oil-Dri Corp. of America, 520 N. Michigan Ave., Chicago, Ill.  
 Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.  
 Philadelphia Quartz Co., 1146 Public Ledger Bldg., 6th & Chestnut Sts., Philadelphia 6, Pa.  
 Rhodes & Co., James H., 153 W. Hubbard St., Chicago 10, Ill.  
 Speedi-Dri Corp., Menlo Park, N. J.  
 Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.  
 Wyandotte Chemicals Corp., J. B. Ford Div., 1609 Biddle Ave., Wyandotte, Mich.

## CLEANERS, Engine, Chassis and Fender

Aerol Products Co., 69 Wesley St., South Hackensack, N. J.  
 Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich. (Steam).  
 Chem-Therm Mfg. Co., Pasadena, Calif.  
 Circo Equipment Co., 120 Central Ave., Clark (Rahway), N. J.

Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hot vapor spray; also portable steam).  
 Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.  
 Curran Corp., Lawrence, Mass. (Cylinder head cleaning kits).  
 Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.  
 Dutton-Lainson Co., Mfg. Div., Hastings, Nebr. (Engine and chassis).  
 Eclipse Fuel Engineering Co., 1111 Buchanan St., Rockford, Ill.  
 Ewing Mfg. Co., 2545 N. W. Tenth St., Oklahoma City, Okla. (Steam).  
 Friend Mfg. Co., East Ave., Gasport, N. Y.  
 General Equipment Mfg. Co., 35 E. Runyon St., Newark 5, N. J.  
 Grayson Tool Co., 1412 W. Second St., Hastings, Neb.  
 Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coronopolis, Pa.  
 Hydro-Air Cleaning Systems Inc., 14731 Miles Ave., Cleveland 28, Ohio.  
 Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.  
 Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif. (Steam).  
 Magnus Chemical Co., 185 South Ave., Garwood, N. J. (Steam guns).  
 Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam).  
 Oakite Products, Inc., 52 G Rector St., New York 6, N. Y. (Steam guns, sprayers).  
 Practical Mfg. Co., 2640 Fourth Ave. S., Minneapolis 8, Minn.  
 Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. (Steam).  
 Sellers Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.  
 Siebring Mfg. Co., 182 Main St., George, Iowa. (Steam).  
 Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Texas.  
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
 Turbo Machine Co. (Div. of Dextdale Hosiery Mills), 840 W. Main St., Lansdale, Pa. (Steam).  
 Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.  
 Vapor Heating Corp., 80 E. Jackson Blvd., Chicago 4, Ill.  
 Wix Corp., Gastonia, N. C.

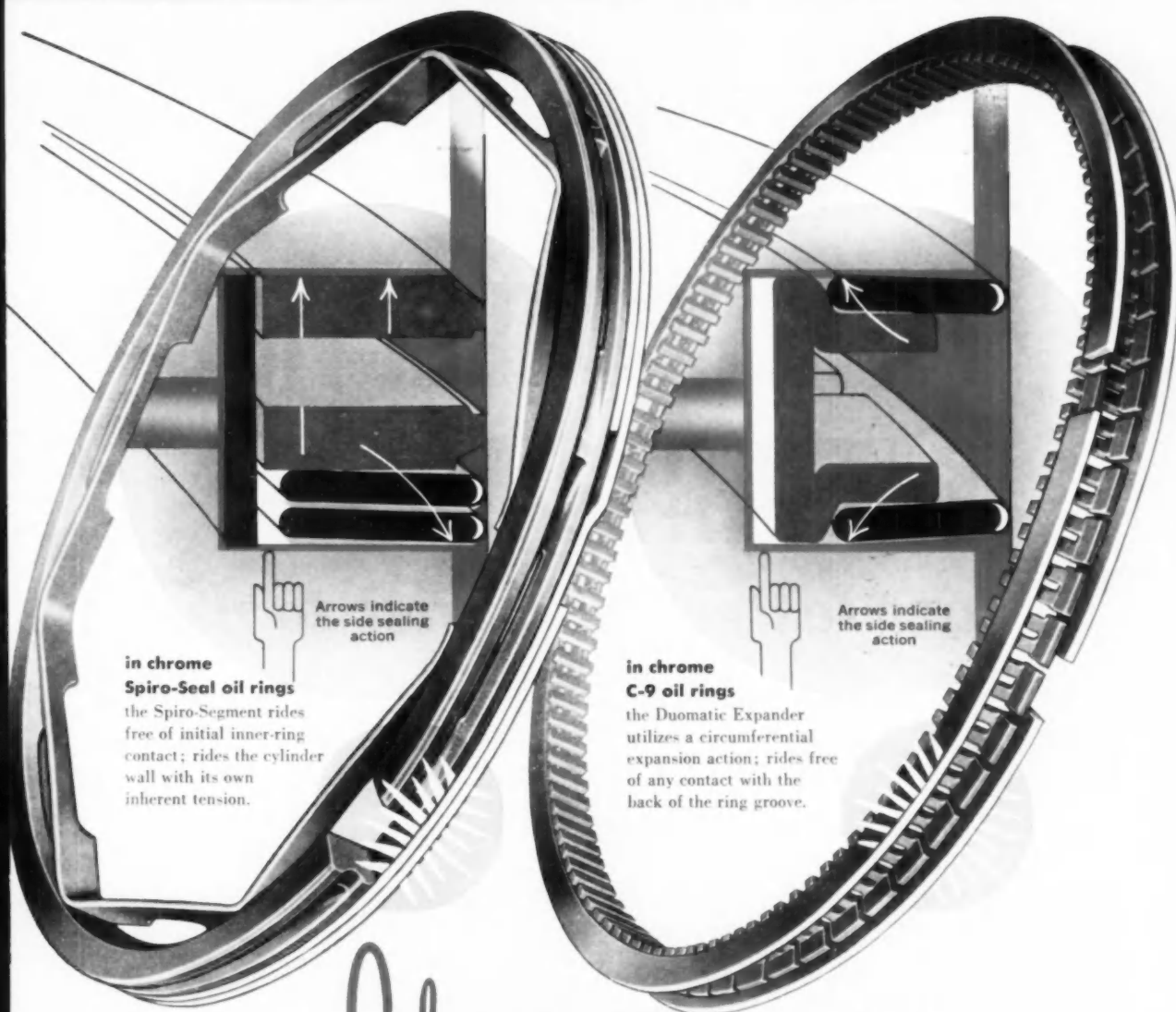
## CLEANERS, Hand

Banite Co., Banite Bldg., Buffalo 4, N. Y.  
 Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.

## CLEANERS, Metal

(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil, Carbon, Grease and Detergents).  
 Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.  
 Aldridge Chemical Oils, Inc., 3401 W. 140th St., Cleveland 11, Ohio.  
 American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa.  
 Anti-Rust Corp., 315 E. 91st St., New York, N. Y.  
 Bruce Products Corp., 500 N. West St., Howell, Mich.  
 Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio.  
 Calceine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J.  
 Cee-Bee Chemical Co., 9520 Ceebee Drive, Downey, Calif.  
 Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.  
 Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.  
 Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3, Ohio.  
 Dearborn Chemical Co., Merchandise Mart Plaza, Chicago 54, Ill.  
 Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.  
 Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.  
 Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.  
 Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.  
 du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 98, Del.  
 du Pont de Nemours & Co., E. I., Grasse Chemical Dept., du Pont Bldg., Wilmington 98, Del. (Alkaline and acid.)





**in chrome  
Spiro-Seal oil rings**  
the Spiro-Segment rides  
free of initial inner-ring  
contact; rides the cylinder  
wall with its own  
inherent tension.

Arrows indicate  
the side sealing  
action

**in chrome  
C-9 oil rings**  
the Duomatic Expander  
utilizes a circumferential  
expansion action; rides free  
of any contact with the  
back of the ring groove.

Arrows indicate  
the side sealing  
action

## Only **RAMCO** has **BOTH** types of Circumferential Expansion Chrome Oil Rings

Not just one exclusive chrome plated oil ring . . . but two!

Chrome C-9 or Chrome Spiro-Seal, whichever oil ring will deliver finest re-powering results, is the oil ring you get when you use Ramco engineered 10-Up sets.

Each ring has years-ahead features which make it the outstanding performer in the engine for which each is recommended. In C-9, for example, you get Ramco's exclusive Circumferential Expansion construction. This puts up to 20% more contacts on the chrome rails to assure maximum conformability. It also provides ad-

vanced side-sealing action so important for many of today's engines.

In Spiro-Seal Oil Rings, you get the exclusive Ramco Circumferential Expansion action of the Chrome Spiro-Segment for both efficient side sealing and superior conformability. This

plus the Double-Life Principle which utilizes, also, a full fledged, cast-iron oil ring makes it the outstanding performer for most of today's re-ring jobs. For all the facts about Ramco engineered 10-Up piston ring sets, see your Ramco Jobber, or write Ramsey Corporation, St. Louis 8, Mo.

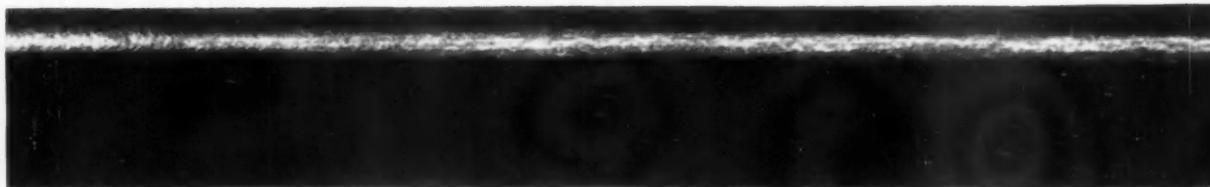
**For CARS, TRUCKS, TRACTORS and BUSES**

# RAMCO

**10<sub>up</sub> piston ring sets**

# PACKARD ELECTRIC BATTERY CABLES

*are faster and easier to use*



Packard Leadalloy battery cables are original equipment on more trucks, buses and cars, than all other makes combined. Use them for replacement, and you'll save time and trouble, too. Like all Packard Cable, they give you lower cost per mile of operation. Testimony of this is the fact that the majority of transportation companies that have won industry maintenance awards use Packard.

Packard Leadalloy battery cables are readily available through the United Motors System.



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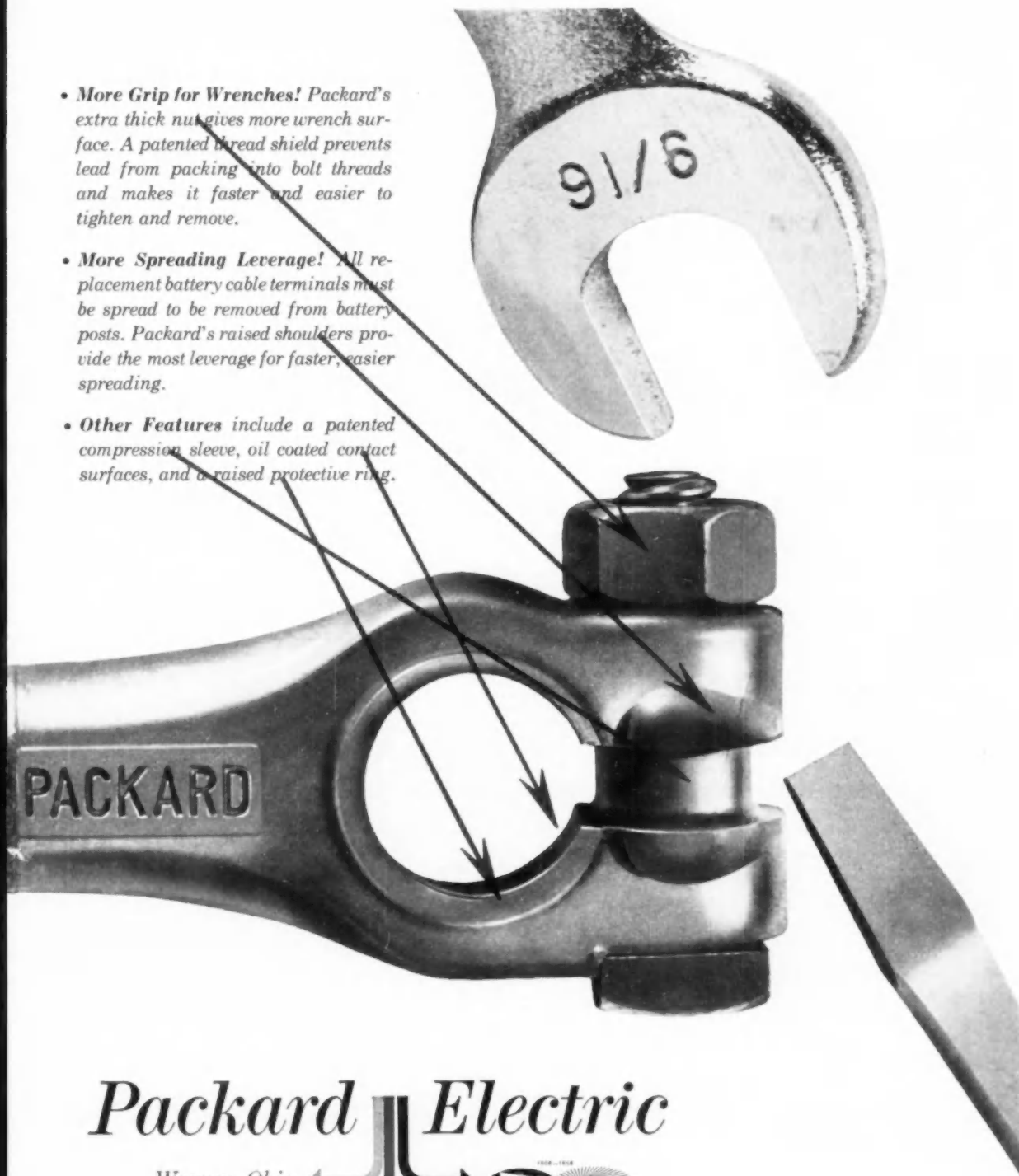
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PAC

• **More Grip for Wrenches!** Packard's extra thick nut gives more wrench surface. A patented thread shield prevents lead from packing into bolt threads and makes it faster and easier to tighten and remove.

• **More Spreading Leverage!** All replacement battery cable terminals must be spread to be removed from battery posts. Packard's raised shoulders provide the most leverage for faster, easier spreading.

• **Other Features** include a patented compression sleeve, oil coated contact surfaces, and a raised protective ring.



# Packard Electric

Warren, Ohio



"Live Wire" division of General Motors

# cleaners to compounds

CCJ's Product Directory

## CLEANERS—continued

Enthone, Inc., 442 Elm St., New Haven 11, Conn.  
Farrelloy Co., 1243 N. 26th St., Philadelphia 21, Pa.  
Fine Organics, Inc., 211 E. 19th St., New York 5, N. Y.  
Fischer Industries, Inc., Paddock Rd. & N. & W. R. E., Cincinnati 29, Ohio.  
Gerlach Co., E. A. P. O. Box 133, Eddington, Bucks County, Pa.  
Glisten Co., 13 Barnard St., Hillsdale, Mich.  
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.  
Hanson-Van Winkle-Munning Co., Matawan, N. J.  
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.  
Homestead Valve Mfg. Co., Hyppressure Jenny Div., Narrows Run Rd., Coraopolis, Pa.  
Hooker Electrochemical Corp., 4746 Buffalo Ave., Niagara Falls, N. Y.  
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.  
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.  
Kelite Corp., 1260 N. Main St., Los Angeles 12, Calif.  
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.  
Krembs & Co., 669 W. Ohio St., Chicago 10, Ill.  
Lake Erie Mfg. Co., 192 Chicago St., Buffalo, N. Y.  
Lavo Co. of America, 1243 N. 5th St., Milwaukee 12, Wis.  
Magnus Chemical Co., 185 South Ave., Garwood, N. J.  
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.  
Manufacturers Processing Co., 1360 Hilton Rd., Ferndale 20, Mich.  
Metal Wash Machinery Corp., 901 N. Ave., Elizabeth, N. J.  
Mitchell-Bradford Chemical Co., Wampus Lane, Milford, Conn.  
Neilson Chemical Co., 6564 Benson St., Detroit 7, Mich.  
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich. "Alkalume."  
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
Panther Chemical Co., P.O. Box 711, Ft. Worth, Texas.  
Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich.  
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.  
Pennsalt Chemical Corp., 3 Penn Center Plaza, Phila. 2, Pa.  
Philadelphia Quartz Co., 1146 Public Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa.  
Quick Charge, Inc., 1750 N. E. 10th St., Oklahoma City 17, Okla.  
Ranschoff, Inc., N. North 5th St. & Ford Blvd., Hamilton, Ohio. (Ultrasonic.)  
Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.  
Rossall Co., 170 Fifth Ave., New York 10, N. Y.  
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.  
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif.  
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.  
Wyandotte Chemicals Corp., J. B. Ford Div., 1609 Biddle Ave., Wyandotte, Mich.

## CLEANERS, Radiator

Aeroil Products Co., Wesley St., South Hackensack, N. J. (Hot.)  
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb. (Hot.)  
Magnus Chemical Co., 185 South Ave., Garwood, N. J.

## CLEANERS, Spark Plug

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Auburn Spark Plug Co., York St., Auburn, N. Y.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.  
Electric Auto Lite Co., Toledo 1, Ohio.

Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.  
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.  
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

CLEANERS, STEAM, See Cleaners, Engine, Chassis and Fender

CLEANERS, TANK, See Washers, Metal Parts

## CLIPS, Spring

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.  
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.  
Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.  
Cuyahoga Spring Co., 10252 Berea Rd., Cleveland 2, Ohio.  
Davis Auto Equipment Co., 119 N. 3rd St., Reading, Pa.  
Handy Button Machine Co., 2255 S. Rockwell St., Chicago 8, Ill. (Upholstery.)  
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.  
Heuser Engrg. & Mfg. Co., Bluffton, Ind.  
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.  
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.  
Seaboard Coil Spring Div. Associated Spring Corp., 15001 S. Broadway, Gardena, Calif.  
Service Spring Co., Box 638, Indianapolis 6, Ind.  
Triangle Auto Spring Corp., Maloney Rd., & B&O RR., Dubois, Pa.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

## CLUTCHES

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 3, Ill.  
Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 38, Ill.  
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Truck and bus.)  
Eaton Mfg. Co., Dynamic Div., 3307 14th Ave., Kenosha, Wis. (Eddy current.)  
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.  
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. (Heavy duty.)  
Long Mfg. Div. Borg-Warner Corp., 12501 Dequindre St., Detroit, Mich.  
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill. (Truck, tractor and bus.)

CLUTCH ALIGNMENT TOOLS, See Tools, Clutch Alignment  
CLUTCH FACINGS, See Facings, Clutch  
CLUTCH PARTS, See Parts, Clutch  
CLUTCH PLATES, See Plates, Clutch  
CLUTCH REBUILDING MACHINES, See Machines, Clutch Rebuilding

## COCKS, Pet, Drain, Gasoline, Air, etc.

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Drain.)  
American Brass & Iron Co., 6500 Georgia Ave., Detroit 11, Mich.  
Anderson Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.  
Commonwealth Brass Corp., 6835 Commonwealth Ave. & G. T. R. R., Detroit 8, Mich. (Drain.)  
Consolidated Brass Co., 2019 N. Tryon Ave., Charlotte 6, N. C.  
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.  
Dorman Products, 1004 Sycamore St., Cincinnati 2, Ohio.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.  
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.  
Imperial Brass Mfg. Co., 1284 W. Harrison St., Chicago, Ill.  
Lincoln Brass Works, 2067 12th St., Detroit 16, Mich.  
Loock & Co., R. J., 348 N. Gay St., Baltimore, Md.  
Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio.

Nauman Mfg. Corp., R. F., 625 Michigan Ave., Buffalo 3, N. Y.  
Republic Gear Co., 2197 Beaufort Ave., Detroit 7, Mich.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 16, Wis.  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

## COILS, Ignition

Aerovox Corp., Crowley Div., 1 Central Ave., West Orange, N. J.  
American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.  
American Motor Products Co., Fond du Lac, Wis.  
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
Crumbless Mfg. Co., 3830 N. Podlin Drive, Franklin Park, Ill.  
D. & M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.  
Electric Auto-Lite Co., Toledo, Ohio.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Regular and high speed.)  
Frederick Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.  
Kem Mfg. Co., 20-21 Dagaraw Rd., Fairlawn, N. J.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
M. D. Parts Mfg. Co., 4295 E. Olympic Blvd., Los Angeles 1, Calif.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.  
New York Coil Co., 42 Second Ave., Phoenixville, Pa.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
O.S.M. Electric Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.  
Shurbit Products, Inc., 845 S. Market St., Waukegan, Ill.  
Sorenson Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.  
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.  
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.  
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.  
United Motors Service, General Motors Bldg., Detroit, Mich.  
Valley Forge Products Co., 370 19th St., Brooklyn 15, N. Y.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Wico Electric Co., 42 Phelon Ave., West, Springfield, Mass.

COIL TESTERS—See Instruments, Electrical Circuit Testing

COMBUSTION ANALYZERS—See Analyzers, Combustion

## COMPOUNDS, Battery Terminal Anti-Corrosive

Allube Corp., 928 Allen Ave., Glendale 1, Calif.  
Arsoo Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.  
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.





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Brake Blocks are  
identified by these colors:**

**Style No. 2500**

Colored red to denote  
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# J-M "Color-Coded" Brake Blocks

New J-M Brake Advisory Service promises  
Fleet Operators maximum mileage at minimum cost

Here's a packaged maintenance program you can adopt immediately to help cut costs and get better brake performance at the same time.

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Just call on the J-M Advisory Service. Through this free service, J-M Engineers are available to study your particular operation and prepare brake block specifications based on the exact needs of each vehicle.

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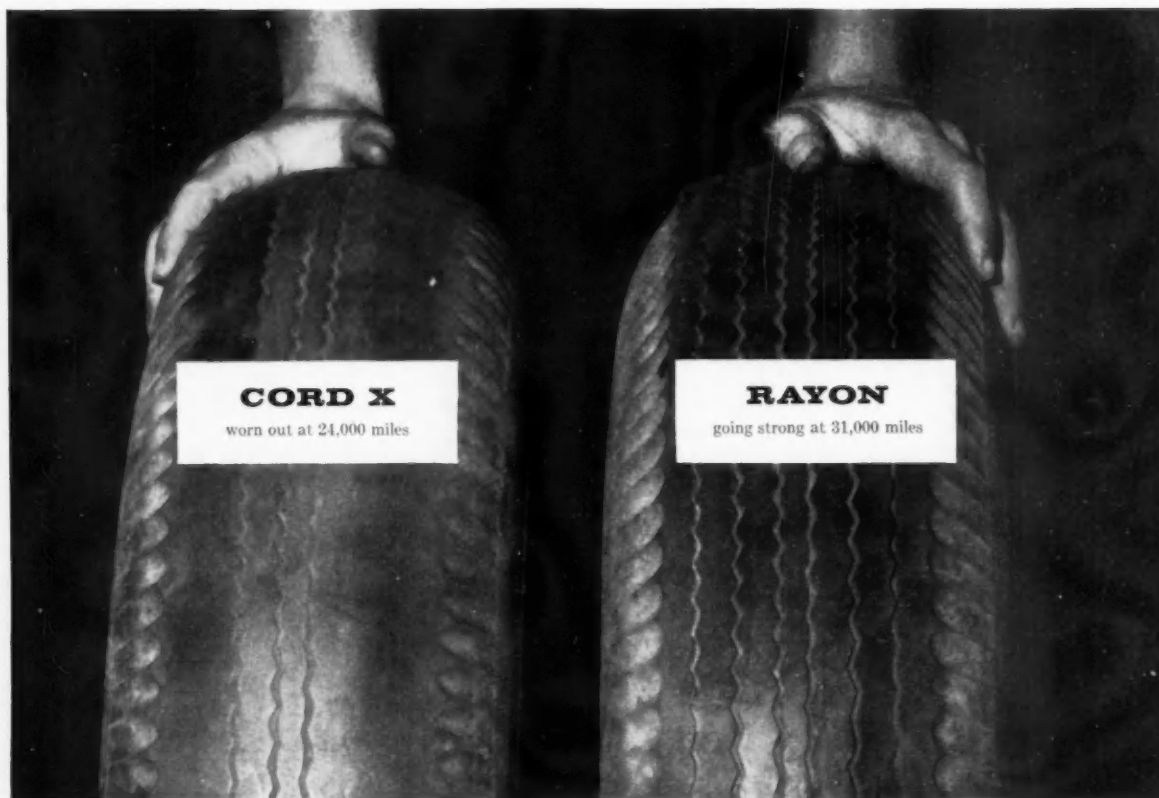
Now, there's further proof that Super Rayon is the *premium performance* tire cord! And this will make a whale of a difference in your profits!

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AMERICAN VISCOSSE CORPORATION, 350 Fifth Avenue, New York 1, N. Y.





**COMPOUNDS—continued**

McLaughlin Oil Co., 3750 E. Livingston Ave., Columbus, Ohio.  
 Noco Co., Box 783, Cleveland 22, Ohio.  
 Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.  
 Radiator Seal Co., 625 Sixteenth Ave., Council Bluffs, Iowa.  
 Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.  
 Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.

**COMPOUNDS, Body Repair**

Bakelite Co., 30 E. 42nd St., New York 17, N. Y.  
 Boyle-Midway Inc., Div. of American Home Products Corp., 22 E. 40th St., New York 16, N. Y.  
 Eonite Miracle Products, Inc., 207 W. Main St., Morgansfield, Ky.  
 Fibre Glass Evercoat Co., Inc., 7220 Vine St., Cincinnati 16, Ohio.  
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
 International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.  
 Maroon Corp., 115 Mill St., Revere, Mass.  
 McKay Co., 1005 Liberty Ave., Pittsburgh 2, Pa.  
 Pioneer Chemical & Mfg. Co., 9812 Meech Ave., Cleveland 5, Ohio.  
 Ren Plastics Inc., 3179 S. Cedar Rd., Lansing 19, Mich.  
 Ruscoe Co., W. J., 483 Kenmore Blvd., Akron 1, Ohio.  
 Sheffield Bronze Paint Corp., 17814 Waterloo Rd., Cleveland 19, Ohio.  
 Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.

**COMPOUNDS, Body Sealing**

Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo.  
 Johns-Manville, Box 14, New York 16, N. Y.

**COMPOUNDS, Brake Bonding**

Ciba Co., 627 Greenwich St., New York 14, N. Y.  
 Milex Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.  
 Permafuse Corp., 675 Main St., Westbury, N. Y.  
 Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.  
 Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
 Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

**COMPOUNDS, CAR WASHING.** See Detergents, Car Washing; also Soaps, Car Washing.

**COMPOUNDS, Crankcase Sludge Removing**

Alox Corp., Buffalo Ave. & Iroquois St., Niagara Falls, N. Y.  
 Alsol Products Co., 123 Coit St., Irvington, N. J.  
 Celco Corp., 110 E. 42nd St., N. Y. 17, N. Y.  
 Curran Corp., S. Canal St., Lawrence, Mass.  
 Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.  
 Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.  
 Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.  
 Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa.  
 Glisten Co., 13 Barnard St., Hilldale, Mich.  
 Gunk Chicago Co., 630 N. Harlem Ave., River Forest, Ill.  
 Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.  
 Kano Labs., 1000 S. Thompson La., Nashville 11, Tenn.  
 Kelite Corp., 1256 N. Main St., Los Angeles 12, Calif.  
 Lubaid Co., 155 E. Kilborn St., Milwaukee 1, Wis.  
 Magnus Chemical Co., 185 South Ave., Garwood, N. J.  
 Moly Motors Products, 1156 Broadway, New York, N. Y.  
 National Refining Co., Standard Bldg., Cleveland 1, Ohio.

Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
 Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
 Quaker Oats Co., Chemical Div., Chicago, Ill.  
 Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.  
 Rust Master Chemical Corp., 56 Creighton St., Cambridge, Mass.  
 V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.  
 White & Bagley Co., 100 Foster St., Worcester 8, Mass.

**COMPOUNDS, Metal Testing**

(To visually locate cracks, flaws or porosity in metal)

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.  
 Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.  
 Magnaflex Corp., 7300 W. Lawrence Ave., Chicago 31, Ill.  
 Turco Products, 6185 S. Central Ave., Los Angeles 1, Calif.

**COMPOUNDS, Radiator & Block Repair**

du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, Wilmington 98, Del.  
 Goodrich Co., B. F., 500 S. Main St., Akron, 18, Ohio. (Capsules.)  
 Hollingshead Corp., R. M., 840 Cooper St., Camden 2, N. J.  
 K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.  
 Lusco Inc., 8915 Bonna, Cleveland, Ohio.  
 Miller Mfg. Co., 1100 N. 32nd St., Camden 5, N. J.  
 Permatex Co., 800 Broadway, Huntington Station, New York, N. Y.  
 Producers, Ltd., 915 Fowler Ave., Evanston, Ill.  
 Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.  
 Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.  
 Sodrini Corp., 2746 McGee Trafficway, Kansas City, Mo.  
 Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y.  
 Stanley Co., John T., 642 W. 20th St., New York 1, N. Y.  
 Tinscher Products Co., 800 Borden Ave., Syracuse, Ill.  
 Vernick Mfg. Co., 4700 E. Nevada St., Detroit 34, Mich.

**COMPOUNDS, RADIATOR RUST PREVENTING.** See Rust Preventatives, Cooling System

**COMPOUNDS, Rubbing and Polishing**

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.  
 Albertain & Co., 3100 Lowell Ave., Sioux City, Iowa  
 Alsol Products Co., 123 Coit St., Irvington, N. J.  
 Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.  
 Brown Co., Andrew, 5431 District Blvd., Los Angeles 22, Calif.  
 Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.  
 Colorgio Products, Inc., 109 N. Newlin Ave., Whittier, Calif.  
 Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.  
 du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del.  
 du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.  
 Glisten Co., 13 Barnard St., Hilldale, Mich.  
 Goodison Mfg. Co., Rochester, Mich.  
 Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.  
 International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.  
 Kammel Prods. Corp., 1619 Hart Place, Brooklyn 24, N. Y.  
 Ken-nite Co., 2325 Hancock Ave., W., Detroit 8, Mich.  
 Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.  
 Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.

Martin-Senour Co., 2520 Quarry St., Chicago 3, Ill.  
 Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.  
 Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.  
 Rogers Paint Products, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.  
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.  
 Simons Co., 2109 Indiana Ave., Chicago 16, Ill. (Polishing.)  
 Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.  
 Stain-Ox Co., 625 E. First Ave., Roselle, N. J.  
 Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich.  
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
 Warehouse Distributors Co., 3810 N. 19th St., Philadelphia 40, Pa.  
 Wilson Imperial Co., 115 Chestnut St., Newark 6, N. J. (Rubbing.)

**COMPOUNDS, Tire Repair**

American Grease Stick Co., Muskegon, Mich. (Tubeless.)  
 Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 2, Tex. (Sole distributors, Monkey Grip Sales Co., 5320 Harry Hines Blvd., Dallas 2, Tex.)  
 Even-Air Corp., Caldwell, N. J.  
 Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.  
 Goodrich Co., B. F., Industrial Prods. Div., 500 S. Main St., Akron, Ohio.  
 Gross Mfg. Co., 1711 California St., Monrovia, Calif.  
 Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.  
 Kex Products, 7259 Lansdowne Ave., St. Louis 19, Mo.  
 Lee Rubber & Tire Corp., Conshohocken, Pa.  
 Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 3, N. Y.  
 Patch Rubber Co., F. O. Box 933, Akron 9, Ohio.  
 Pera Products, Inc., 801 N. 2nd St., Corvallis, Ore.  
 United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20, N. Y.  
 Van Cleef Bros., Woodlawn Ave., 77th to 78th St., Chicago, Ill.

**COMPOUNDS, Valve Grinding**

Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill.  
 Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.  
 Clover Mfg. Co., Norwalk, Conn.  
 Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.  
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.  
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
 Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.  
 Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.  
 Purfex Mfg. Co., Box 118, Collegeville, Pa.  
 Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

**COMPOUNDS, Welding**

Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio.  
 Ensign Products Co., 3526 E. 76th St., Cleveland 15, Ohio.  
 Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.  
 Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.  
 Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio. (To prevent bonding of spatter to parts.)  
 Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich. ("Flash-Ex," to prevent bonding of flash to dies; "Spatter-Ex," to prevent bonding of spatter to parts.)  
 Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis. (To prevent bonding of spatter to parts.)

# compounds to coolers

CCJ's Product Directory

## COMPOUNDS, Windshield Sealing

Behr-Manning, Div. Norton Co., Troy, N. Y.  
Dolphin Paint & Varnish Co., 922 Locust St., Toledo 2, Ohio.  
du Pont de Nemours & Co., E. I. Finishes Div. Specialties Sales, Wilmington 98, Del.  
Krylon, Inc., Ford & Washington Sts., Norristown, Pa.  
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.  
Radiator Specialty Co., 1400 W. Ind Blvd., Charlotte 1, N. C.  
Vibradamp Corp., 4401 Page Ave. Rd., Jackson, Mich.

**COMPRESSION GAGE, See Gages, Cylinder Compression**

## COMPRESSORS, Air

American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J.  
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y.  
Bell & Gossett Co., 8200 Austin Ave., Morton Grove, Ill.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill. (For operating spray equipment.)  
Black Mfg. Co., 75 Okner Parkway, Livingston, N. J.  
Brown Corp., W. R., 2701 N. Normandy Ave., Chicago 35, Ill.  
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.  
Buell Mfg. Co., 919 W. 49th Place, Chicago 9, Ill.  
Campbell-Hausfeld Co., 211 Railroad Ave., Harrison, Ohio.  
Cerlist Diesel Inc., 1709 N. Church St., Burlington, N. C.  
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal.  
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo.  
Davey Compressor Co., Rotary Drill Div., 600 Franklin Ave., Kent, Ohio.  
Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.  
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.  
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.  
Emglo Products Div., M. Glosser & Sons, Inc., 80 Messenger St., Johnstown, Pa.  
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.  
Gardner-Denver Co., S. Front St., Quincy, Ill.  
Gast Mfg. Corp., 2300 Highway M-139, Benton Harbor, Mich.  
Gilbert & Barker Mfg. Co., West Springfield, Mass.  
Grover Prods. Co., 1221 S. Hope St., Los Angeles 16, Calif. (Electric.)  
H & H Products Mfg. Co., P. O. Box 2333 Terminal Annex, Los Angeles 54, Calif.  
Ingersoll-Rand Co., Phillipsburg, N. J.  
Jaeger Machine Co., 550 W. Spring St., Columbus 16, Ohio.  
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.  
Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Philadelphia 36, Pa.  
Le Roi Div., Westinghouse Air Brake Co., 1706 S. 68th St., Milwaukee 14, Wis.  
M. & E. Mfg. Co., 2571 Winthrop Ave., Indianapolis 6, Ind.  
Midland Steel Products Co., 2641 E. Milwaukee Ave., Detroit 11, Mich.  
National Electric Tool & Equipment Co., 1807 W. Lake St., Chicago 12, Ill.  
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.  
Pioneer Air Compressor Co., 120 Chambers St., New York, N. Y.  
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 18, Mich.  
Quincy Compressor Co., 217 Maine St., Quincy, Ill.  
Saylor-Beall Mfg. Co., St. Johns, Mich.  
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.  
Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa.  
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.  
Southwest Pump Co., First and Center Sts., Bonham, Tex.  
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.

Thomas Industries, Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.  
Tokheim Corp., 1602 Wabash Ave., Fort Wayne 1, Ind. (Portable.)  
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.  
Wayne Pump Co., Salisbury, Md.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.  
Wilson, Inc., K. R., Arcade, N. Y.  
Worthington Corp., Holyoke Div., Holyoke, Mass.

## COMPRESSORS, Air, Power Take-off Type

Cooper-Bessemer Corp., Mount Vernon, Ohio.  
Davey Compressor Co., 600 Franklin Ave., Kent, Ohio.  
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill.  
Schramm, Inc., West Chester, Pa.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

**CONDENSER TESTERS, See Instruments, Electrical Circuit Testing**

## CONDENSERS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.  
American Motor Products Co., Fond du Lac, Wis.  
Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 8, N. Y.  
D. & M. Electric Co., 6209 Hamilton Ave., Detroit 2, Mich.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.  
Electric Auto-Lite Co., Toledo, Ohio.  
F. & B. Mfg. Co., 4245 W. Chicago Ave., Chicago 51, Ill.  
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.  
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.  
New York Coil Co., 42 Second Ave., Phoenixville, Pa.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
Shurhit Products, Inc., Waukegan, Ill.  
Sorensen Mfg. Co., P., 82-31 57th St., Woodside 77, N. Y.  
Sprague Electric Co., 344 Marshall St., North Adams, Mass.  
Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.  
Tungsten Contact Mfg. Co., 7811 Cottage Ave., North Bergen, N. J.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

**CONNECTING ROD BEARINGS, See Bearings**

## CONNECTING RODS

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. (Aluminum alloy.)  
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Reconditioned, Reababbitted.)  
Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.  
Continental Motors Corp., Muskegon 82, Mich.

Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum.)  
Niagara Motors Corp., Lampshire St., Dunkirk, N. Y.  
Park Drop Forge Co., 777 E. 79th St., Cleveland 3, Ohio.  
Parks Engineering, Inc., 347 E. Ward St., Milwaukee 7, Wis.  
Pioneer Motor Bearing Co., Eddy St. & Van Ness Ave., San Francisco, Calif.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

## CONNECTORS, Electrical Circuit, Trailer

Autac, Inc., Box 1071, New Haven, Conn.  
Berg Mfg. & Sales Co., 1712 S. Michigan, Chicago 16, Ill. (Also voltage converters.)  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. (Also voltage converters.)  
Connecticut Telephone & Electric Corp., 80 Britannia St., Meriden, Conn.  
Griffin Lamp Co., 401 S. 3rd St., Hamilton, Ohio.  
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.  
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.  
S. & M. Lamp Co., 119 W. 36th Pl., Los Angeles 54, Calif.  
Scintilla Magneto Div. of Bendix Aviation Corp., Sidney, N. J.  
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

**CONNECTORS, WIRE, See Terminals, Wire CONTACT POINT ALIGNING TOOLS, See Tools, Ignition**

**CONTACT POINT FILES, See Files, Contact Point**

**CONTACT POINTS, See Points, Ignition CONTROLS, ENGINE CUT OFF, See Switches, Ignition, Cut-Off**

## CONTROLS, Hydraulic

(Advertisers only)  
Monarch Road Machinery Co., 1331 Michigan St., N.E., Grand Rapids 3, Mich.

## CONVERTERS, Torque

Allison Div., General Motors Corp., P. O. Box 894, Indianapolis 6, Ind.  
Borg & Beck Div. Borg-Warner Corp., 6658 S. Menard Ave., Chicago 38, Ill.  
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.  
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13 F., Mich.  
Long Mfg. Div. of Borg-Warner Corp., 12501 Duquindre St., Detroit 12, Mich.  
Terado Co., 1068 Raymond Ave., St. Paul 14, Minn.  
Twin Disc Clutch Co., 1328 Racine St., Racine, Wis.  
Western Gear Corp., 2600 E. Imperial Highway, Lynwood, Calif.

## COOLERS, Truck, Bus and Trailer

BEW Corp., 3055 E. 12th St., Los Angeles 23, Calif.  
G & S Mfg. Co., 2824 E. Washington St., Phoenix, Ariz.  
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.  
Metal Products Engineering, Inc., 4000 Long Reach Ave., Los Angeles 58, Calif.  
Spitzka Mfg. Co., 235 Colfax St., N., Sacramento, Calif.  
Thermador Electrical Mfg. Co., 519 S. District Blvd., Los Angeles 22, Calif.

## COOLERS, Oil Temperature

G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.  
Kewanee-Ross Corp., Buffalo, N. Y.



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CCJ's Product Directory

## COOLERS—continued

Yates-American Machine Co., Beloit, Wis.  
Young Radiator Co., 709 S. Marquette St.,  
Racine, Wis.

## CORD, Tire

American Enka Company, 206 Madison Ave.,  
New York 16, N. Y.  
American Viscose Corp., 350 Fifth Ave., New  
York 1, N. Y.  
du Pont de Nemours & Co., E. I., Textile  
Fibers Dept., Wilmington 98, Del.  
Firestone Tire & Rubber Co., 1200 Firestone  
Parkway, Akron, Ohio. (Cotton, nylon and  
rayon.)  
Goodyear Tire & Rubber Corp., 1144 E. Mar-  
ket St., Akron 16, Ohio.  
Industrial Rayon Corp., 660 Union Commerce  
Bldg., Cleveland 1, Ohio.  
United States Rubber Co., Rockefeller Center,  
1230 Ave. of the Americas, New York 39,  
N. Y.

**CORROSION PREVENTIVES.** See Rust Pre-  
ventives

## COUPLERS, Trailer

(See also "Connectors, Electrical")

Aeme Mfg. Co., 1406 Agnes St., Kansas City  
27, Mo.  
Atwood Vacuum Co., 1400 Eddy Ave., Rock-  
ford, Ill.  
Austin Trailer Equipment Co., 1148 W. West-  
ern Ave., Muskegon, Mich.  
Berluti Mfg. Co., 2936 Bay Rd., Saginaw,  
Mich. (Utility.)  
Buller Mfg. Co., Hillsboro, Kan.  
Campbell Co. H. D., 402 Dewey Ave., Ro-  
chelle, Ill.  
Colson Corp., Elyria, Ohio.  
Dalton Foundries Inc., Lincoln & Jefferson  
Sts., Warsaw, Ind.  
Dutton-Lainson Co., Mfg. Div., Hastings, Neb.  
Elkhart Welding & Hoiler Works, Inc., 2132 S.  
Main St., Elkhart, Ind.  
Foreman Mfg. Co., 6353 S. State St., Chicago  
9, Ill.  
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14,  
Wis.  
Hammer Blow Tool Co., 602½ Third St.,  
Wausau, Wis.  
Holland Hitch Co., 430 W. 18th St., Holland,  
Mich.  
Ideal Mfg. Co., 1107 S. 7th St., Askaloosa,  
Iowa.  
Independent Iron Works, Inc., 8th & Pine Sts.,  
Oakland 20, Calif.  
Jordan Equipment Co., 2526 Wood St., Oak-  
land 7, Calif. (Aligner.)  
McCabe-Powers Auto Body Co., 5900 N. Broad-  
way, St. Louis 15, Mo.  
McKay Co., 1005 Liberty Ave., Pittsburgh  
22, Pa. (Emergency chain.)  
Marvel Industries, Inc., Sturgis, Mich.  
Mercury Mfg. Co., 4044 S. Halsted St., Chi-  
cago 9, Ill.  
Premier Mfg. Co., 4434 S.E. 25th Ave., Port-  
land 2, Ore.  
Rapids Equipment Co., B. Ave. & Sixth St.,  
N. W., Cedar Rapids, Iowa. (Cabin, sole  
distributors, Rapids Products Co., 220  
Sixth St., N. W., Cedar Rapids, Iowa.)  
Slimp Axle Products, Highway 99 West (Box  
449), Colton, Calif.  
Valley Tow-Rite Industries, 1231 S. Sacramento  
St., Lodi, Calif.  
Weber trailer & Mfg. Co., 8400 E. Slawson  
Ave., Rivera, Calif. (Mailing address, P. O.  
Box 2473, Los Angeles 34, Calif.)  
Wells, Inc., Martin, 5886 Compton Ave., Los  
Angeles 1, Calif.  
Wood-Williams-Camp Mfg. Co., 3239 W. Michi-  
gan Ave., Ypsilanti, Mich.

## COUPLINGS, See Tube Fittings

## COVERINGS, Floor, Bus or Truck

Armstrong Cork Co., Industrial Div., Lan-  
caster, Pa. (Linoleum.)  
Moore & Co., Samuel, Mantua, Ohio. (Syn-  
thetic rubber.)

## COVERS, Radiator Grille

Belmor Mfg. Co., 3326 W. Cermak Rd., Chicago  
23, Ill.  
Detroit Cover Co., 3410 W. Fort St., Detroit  
16, Mich.

Henry Mfg. Co., 1310 Marquette St., Minne-  
apolis, Minn.  
Hinson Mfg. Co., Westfield Ave. & Menges  
St., Waterloo, Iowa.  
Parker Products, Inc., 1415 Washington Ave.,  
S. Minneapolis 4, Minn.  
Protection Products Co., 2637 W. Polk St.,  
Chicago 12, Ill.  
Temme & Co., W. H., 1027 Madison St., Oak  
Park, Ill.

## COVERS, Truck

Ameratron, Inc., Div. of Textron-America, 1407  
Broadway, New York, N. Y.  
Aeme Backing Corp., Canal & Ludlow Sts.,  
Stamford, Conn.  
Clifton Mfg. Co., 323 Pleasant St., Waco,  
Texas.  
Du Pont Co., 2494 Nemours Bldg., Wilming-  
ton 98, Del.  
East Akron Tarpaulin Co., 1048 Bank St.,  
Akron 5, Ohio.  
Haarts-Mason, Inc., 270 Pleasant St., Water-  
town, Mass.  
Hoozier Tarpaulin & Canvas Goods Co., Inc.,  
1302 W. Washington St., Indianapolis 6,  
Ind. (Truck and trailer.)  
Mt. Vernon-Woodberry Mills, Inc., Mercantile  
Trust Bldg., N. Y., N. Y.  
Pittsburgh Steel Products Co., Grant Bldg.,  
Pittsburgh 30, Pa. (For handling tar-  
paulins.)  
Reeves Bros., Inc., Vulcan Rubber Products  
Div., 1071 Sixth Ave., New York, N. Y.  
Turk Corp., C. K., 1122 Mishawaka Ave.,  
South Bend 15, Ind. (For pickup trucks.)  
Turner Equipment Co., 432 St. Aubin St., De-  
troit 7, Mich.  
Webb Mfg. Co., Fourth & Cambria Sts., Phila-  
delphia 33, Pa.

## CRANES, Crawler and Truck Mounted

American Steel Dredge Div., American Hoist  
& Derrick Co., 2511 W. Taylor St., Fort  
Wayne 1, Ind.  
Automatic Transportation Co., Div., Yale &  
Towne Mfg. Co., 101 W. 87th St., Chicago  
29, Ill.  
Browning Crane & Shovel Co., 16226 Water-  
loo Rd., N. E., Cleveland 10, Ohio.  
Cemco Industries, Inc., Galion, Ohio.  
Duplex Div., Warner & Swasey Co., Hazel  
St., Lansing 4, Mich.  
Harben, Inc., Box 5997, Dallas, Tex.  
Holart Corp., J. H., 4100 W. 150th St., Cleve-  
land 11, Ohio.  
Hughes-Keenan Div., U. S. Air Conditioning  
Corp., P. O. Box 360 Delaware, Ohio.  
Hyater Co., 2980 N. E. Clackamas St., Port-  
land 8, Ore.; 1880 N. Adams St., Peoria 1,  
Ill.; 1080 Meyers St., Danville, Ill.  
Lempeo Products, Inc., Bedford, Ohio.  
Link-Belt Speeder Corp., 1201 Sixth St., S. W.,  
Cedar Rapids, Iowa.  
Memco, 1007 N.W. 36th St., Okla. City 3, Okla.  
Schield Bantam Co., Waverly, Iowa.  
Silent Hoist & Crane Co., 852 63rd St., Brook-  
lyn 20, N. Y.  
Star Machine & Tool Co., 20 16th St., S.E.,  
Minneapolis 14, Minn.  
Stratton Equipment Co., 2030 E. 105th St.,  
Cleveland 6, Ohio.

## CRANES, Monorail

American Monorail Co., 13107 Athens Ave.,  
Cleveland 7, Ohio.  
Detroit Hoist & Machine Co., 8350 Morrow  
St., Detroit 11, Mich.  
Harnischfeger Corp., 4400 W. National Ave.,  
Milwaukee, Wis.  
Hobbs Co., Clinton E., 203 Chelsea St.,  
Everett 4, Mass.  
Industrial Crane & Hoist, Ingersoll Products  
Div., Borg-Warner Corp., 1536 S. Paulina  
St., Chicago 8, Ill.  
Louden Machinery Co., 1102 West Ave., Fair-  
field, Iowa.  
Michigan Crane & Conveyor Co., 115 N. Mc-  
Kinstry St., Detroit, Mich.  
Northern Engineering Wks., 2615 Atwater  
St., Detroit 7, Mich.

## CRANES, Portable, Hand Operated

(See also Hoists, Chain)

Baker Mfg. Co., 154 W. Water St., Kanka-  
kee, Ill.  
Bradney Machine Co., 70 Monhagen Ave.,  
Middletown, N. Y.  
Cam Tool Co., 1038 Larkin St., San Francisco,  
Calif.

Chisholm-Moore Hoist Div. Columbus McKin-  
non Chain Corp., Fremont Ave., Tona-  
wanda, N. Y.  
Houdaille Industries, Inc., Mansel Div., 815  
Babcock St., Buffalo 10, N. Y.  
Industrial Crane & Hoist, Ingersoll Products  
Div., Borg-Warner Corp., 1536 S. Paulina  
St., Chicago 8, Ill.  
Lempeo Products, Inc., 5490 Dunham Rd.,  
Bedford, Ohio. (Hydraulic.)  
Lewis-Shepard Products, Inc., 125 Walnut St.,  
Watertown 72, Mass.  
Manley Div. American Chain & Cable Co.,  
1100 E. Princess St., York, Pa.  
Manning, Maxwell & Moore, Inc., Shaw-Box  
Crane & Hoist Div., Park & Broadway,  
Muskegon, Mich.  
Mansel, Div. Houdaille-Hershey Corp., 815  
Babcock St., Buffalo 10, N. Y. (Hydraulic.)  
Ohio Hoist & Mfg. Co., 13111 Shaker Sq.,  
Cleveland 20, Ohio.  
Round & Son, David, Box 883, Cleveland 22,  
Ohio.  
Ruger Equipment, Inc., 615 W. 4th St.,  
Uhrichsville, Ohio.  
Saggen Derrick Co., 3101 W. Grand Ave.,  
Chicago 22, Ill.  
Star Machine & Tool Co., 201 Sixth St., S.E.,  
Minneapolis 14, Minn.  
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis  
3, Minn.

## CRANES, Service Truck

Cam Tool Co., 1038 Larkin St., San Francisco,  
Calif.  
Cemco Industries, Inc., First National Bank  
Bldg., Galion, Ohio. (Fifth wheel mount.)  
Daybrook Hydraulic Div., L. A. Young Spring  
& Wire Corp., Bowling Green, Ohio.  
Gar Wood Industries, Inc., Wayne, Mich.  
Guibert Steel Co., 4001 Windgap Ave., Pitta-  
burgh 4, Pa.  
Holmes Co., Ernest, 2505 E. 43rd St., Chat-  
tanooga, Tenn.  
Howell Industrial Truck Co., 1083 Erie Cliff  
St., Cleveland 7, Ohio.  
Hubbard Mfg. Co., Farmland, Ind.  
Manley Mfg. Div. American Chain & Cable  
Co., 1100 E. Princess St., York, Pa.  
Rockford Crescent Mfg. Co., 420 Buckbee St.,  
Rockford, Ill.  
Ruger Equipment, Inc., 615 W. 4th St.,  
Uhrichsville, Ohio. (Hydraulic.)  
Saggen Derrick Co., 3101 W. Grand Ave.,  
Chicago 22, Ill.  
Silent Hoist & Crane Co., 852 63rd St., Brook-  
lyn 20, N. Y.  
Stimmel Winch Co., 37-24 33rd St., Long  
Island City 1, N. Y.  
Stratton Equipment Co., 2030 E. 105th St.,  
Cleveland 6, Ohio.  
Uhrden Inc., 508 Grant St., Dennison, Ohio.  
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis  
3, Minn.  
Watson Co., H. S., 1316 67th St., Emeryville,  
Calif.  
Weld-Built Body Co., 5903 Preston Court,  
Brooklyn 34, N. Y.

**CRANKSHAFT, GRINDERS.** See Grinders,  
Crankshaft

## CRANKSHAFTS, Reconditioned

(Advertisers Only)

Morco, Inc., 22201 Aurora Rd., Bedford, Ohio.

## CRAWLERS

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
J. I. Case Co., 700 State St., Racine, Wis.  
Caterpillar Tractor Co., Peoria Zone 8, Ill.  
Deere & Co., 3300 River Drive, Moline, Ill.  
Euclid Div., General Motors Corp., 1361 Char-  
don Rd., Cleveland 17, Ohio.  
International Harvester Co., 180 N. Michigan  
Ave., Chicago 1, Ill.  
The Oliver Corp., 400 W. Madison St., Chi-  
cago 6, Ill.

## CREEPERS, Mechanic

Ashland Mfg. Co., 2021 Ashland Ave., Balti-  
more 6, Md.  
Balcrank, Inc., Disney St. nr. Marsburg, Cin-  
cinnati, Ohio.  
Clinton Products Co., 701 Tecumseh Rd., Clin-  
ton, Mich.  
Cornwall Quality Tools Co., Magadore, Ohio.



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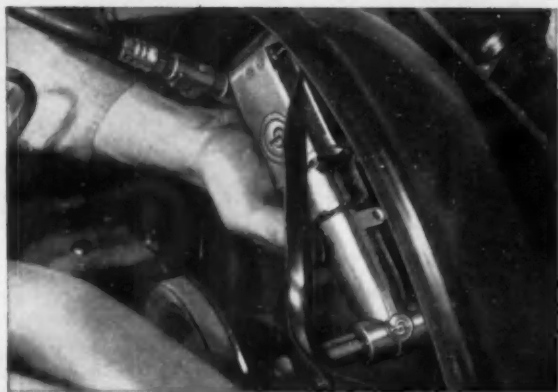
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The *Attachable Angle Head* attaches firmly to special nose section . . . permits one-hand operation in ratchet wrench spots.

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COMMERCIAL CAR JOURNAL, November, 1957

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**NEW TILT CAB TRUCKS**... lowest-priced\* Tilt Cab line in America! Six new series, up to 60,000-lb. GCW, are typical of the wide choice in Ford's heavy duty line.

\*Based on a comparison of manufacturers' suggested retail prices



(Background) **NEW TWO-TON stake** with your choice of Short Stroke Six or V-8's.

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# FORD TRUCKS



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COMMERCIAL CAR JOURNAL, November, 1957

115

# cushions to detergents

CCJ's Product Directory

## CREEPERS—continued

Huffman Mfg. Co., Automotive Div., P. O. Box 310, Delphos, Ohio. (Metal, also wood.)  
Kay-Wood Products, Inc., Bedford, Pa. (Wood.)  
P. & B. Specialties Co., 531 N. 2nd St., Philadelphia 23, Pa.  
Parker Prods. Co., Pollock Rd., Delaware, Ohio.  
R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio. (Sole distributors, Lisle Corp., 809 E. Main St., Clarinda, Iowa.)  
Smash-Proof Co., 6000 State Ave., Ashtabula, Ohio. (With or without brake.)  
Wilson, Inc., K. R., Arcade, N. Y.

## CUSHIONS, Seat, Rubber

Bestrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.  
Dunlop Tire & Rubber Corp., Sheridan Drive & River Road, Buffalo 5, N. Y.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio. (Foamed latex.)  
General Seating Co., 220 Main St., Tipton, Pa.  
Goodrich Co., B. F., Sponge Prods. Div., Howe Ave., Shelton, Conn.  
Goodyear Tire & Rubber Co., Akron 16, Ohio.  
Hewitt-Robins, Inc., 666 Glenbrook Rd., Stamford, Conn.  
Karpex Mfg. Co., 1436 E. 19th St., Indianapolis 7, Ind.  
New York Rubber Corp., Airubber Div., 100 Park Ave., New York 17, N. Y.  
Perma Seating Co., 8770 Kinsman Rd., Cleveland 4, Ohio.  
United States Rubber Co., Rockefeller Center 1230 Ave. of the Americas, New York 20, N. Y.

## CUSHIONS, Seat, Spring

Bestrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.  
Fort Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 33, Pa.  
General Seating Co., 220 Main St., Tipton, Pa.  
Goshen Cushion & Body Co., N. Second St., Goshen, Ind.  
Perma Seating Co., 8770 Kinsman Rd., Cleveland 4, Ohio.  
Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich.

## CUTTERS, Tubing, Hand

Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.  
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.  
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.  
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.  
Herbrand Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Kennedy Service Tools, Inc., P. O. Box 38, Mogadore, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Miller Co., L. B., 336 W. Main St., Stamford, Conn.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.  
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa.  
Quality Tools Corp., Railroad St., New Wilmington, Pa.  
Reed Mfg. Co., Box 1321, Erie, Pa. (Pipe.)  
Rinck-Mellwaine Inc., 10 Hudson St., New York 13, N. Y.  
Severance Tool Industries, Inc., 711 Iowa Rd., Saginaw, Mich.  
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.  
Tlrmont Mfg. Co., Div. of St. Pierre Chain Corp., 50 Frank St., Worcester 4, Mass.

Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind.

**CYLINDER DE-GLAZERS, See De-Glazers, Cylinder**  
**CYLINDER HONES, See Hones, Cylinder**  
**CYLINDER LINER, See Sleeves, Cylinder**  
**CYLINDER LUBRICATORS, See Lubricators, Upper Cylinder**  
**CYLINDER REBORING TOOLS, See Tools, Cylinder Reboring, Portable**  
**CYLINDER RIDGE REAMER, See Reamers, Cylinder Ridge**

## DECALCOMANIAS

American Decalcomania Co., Inc., 4326 5th Ave., Chicago 24, Ill.  
Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.  
Excello Specialty Co., 4111 E. 100 St., Cleveland 5, Ohio.  
Jaco-Lac Decal Co., 234 S. Wells, Chicago 6, Ill.  
Meyercood Co., 5323 W. Lake St., Chicago 44, Ill.  
Ohio Decalcomania Co., 4103 E. 100 St., Cleveland 5, Ohio.  
Palm Bros. Decalcomania Co., 8736 Regent St., Cincinnati, Ohio.  
Palm, Fechteler Co., 85-99 Maple St., Weehawken, N. J.  
Permalux Co., 500 Rathbone Ave., Aurora, Ill.  
Screenmasters, 128 32nd St., Brooklyn 32, N. Y.

**DECELEROMETERS, See Meters, Brake Testing**

## DEFROSTERS, Glass Shield

Arvin Industries, Inc., 13th St. & Big Four R.R., Columbus, Ind.  
Durkee-Alwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.  
Eaton Mfg. Co., E. 65th St., Cleveland, Ohio.  
Evans Products Co., 13101 Eckler's Rd., Plymouth, Mich. (Locking.)  
Henry Mfg. Co., 421 5th Ave. So., Minneapolis, Minn.  
Western Cable & Light Co., 395 Sibley St., St. Paul, Minn.

**DEFROSTING FANS, See Fans, Defrosting**

## DEGLASSERS, Bus

Fageol Co., R. D., Box 328, Kent, Ohio.

## DE-GLAZERS, Cylinder

Burd Piston Ring Co., Div. of Gabriel Co., 1401 23rd Ave., Rockford, Ill.  
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Storm-Vulcan Inc., 2225 Burbank St., Dallas 19, Tex.  
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

**DEGREASERS, See Washers, Metal Parts**

**DEGREASING COMPOUNDS, See Solvents, Oil, Carbon and Grease Removing**

## DEPRESSORS, Brake Pedal

Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Manbee Equipment, Div. of Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.  
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Waterloo Valve Spring Compressor Co., 300 Ansbrough Ave., Waterloo, Iowa.

**DERRICKS, See Cranes, Service Truck**

## DETERGENTS, Washing

Advance Century Mfg. Co., P. O. Box 781, Greenville, S. C.  
Atomix, Inc., Box 486, Wilmington 99, Del.  
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.  
Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.  
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.  
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif.  
Colorgio Products, Inc., 109 N. Newlin Ave., Whittier, Calif.  
Commercial Solvents Corp., 260 Madison Ave., New York 17, N. Y.  
Crystal Soap & Chemical Co., 6300 State Road, Philadelphia 35, Pa. (Soap.)  
Dacar Chemical Products Co., Wabash & McCarty Sts., Pittsburgh 20, Pa.  
Detrox Chemical Industries, Inc., Box 501, Detroit 32, Mich.  
Drew Co., E. F., 15 E. 26th St., New York, N. Y.  
du Pont de Nemours & Co., E. I. Chemical Specialties Div., Wilmington, Del.  
Fischer Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.  
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.  
Jones Products, Inc., 276 Third St., Cambridge 42, Mass.  
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.  
Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio.  
Lavo Co. of America, 300 N. Seventh St., Milwaukee 3, Wis.  
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio.  
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.  
Magnus Chemical Co., 185 South Ave., Garwood, N. J.  
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y.  
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn.  
Miller Mfg. Co., 1100 N. 32nd St., Camden, N. J. (Capsules.)  
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio.  
Murphy-Phoenix Co., Div. of Phoenix Oil Co., 8505 Cassius Ave., Cleveland 5, Ohio.  
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
Oronite Chemical Co., 33 Sansome St., San Francisco 4, Calif.  
Penetone Co., 74 Hudson Ave., Tenafly, N. J.  
Permo Products Co., 1629 Platte St., Denver 2, Colo.  
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.  
Seller Injector Corp., 1600 Hamilton St., Philadelphia 30, Pa.  
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.  
Service Supply Co., 1115 Seventh St., Denver, Colo.  
Shur-Gloss Mfg. Co., 3536 N. Knox Ave., Chicago 41, Ill.  
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y.  
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.  
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.  
Tudor Chemical Specialties, Inc., 141 Woodworth Ave., Yonkers 2, N. Y.  
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.  
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo.  
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.  
"X" Laboratories, Inc., 25 W. 45th St., New York 36, N. Y.  
Zecol, Inc., 3270 S. Third St., Milwaukee 7, Wis.

**DIAL GAGES, See Gages, Dial**  
**DIESEL ENGINES, See Engines, Diesel**  
**DIESEL ENGINE FUEL FILTERS, See Filters, Diesel Fuel**  
**DIESEL EQUIPMENT TESTERS, See Testers, Diesel Equipment**





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# differentials to drills

CCJ's Product Directory

**DIESEL FUEL.** See Fuels, Engine

**DIESEL INJECTOR EQUIPMENT.** See Injector Systems, Gasoline & Diesel Engine

**DIFFERENTIAL CLEANERS.** See Flushers, Differential and Transmission

## DIFFERENTIALS

Automotive Gear Div. of Eaton Mfg. Co., S. Eighth & C Sts., Richmond, Ind.  
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. (Automatic locking.)  
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.  
Dualoc Drive, Inc., 700 20th St., Rockford, Ill. (Locking.)  
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.  
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.  
New Process Gear Co., 500 Plum St., Syracuse, N. Y.

## DIMMER, Headlight, Electronic

Guide Lamp Div., General Motors Corp., Anderson, Ind.

**DIRECTIONAL SIGNAL SWITCHES.** See Switches, Direction Indicating Signal

**DIRECTIONAL SIGNALS.** See Signals, Direction Indicating

## DISCS, Abrasive Grinding

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Armour & Co., Cushioning Products Div. & Coated Abrasives Div., N. Benton Rd., Alliance, Ohio.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Bay State Abrasive Products Co., 12 Union St., Westboro, Mass.  
Behr-Manning Corp., 4457 Howe St., Troy, N. Y.  
Besley-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.  
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. (Also sanding pads.)  
Clover Mfg. Co., Norwalk, Conn.  
Field Abrasive Mfg. Co., 1303 Stanley Ave., Dayton 4, Ohio.  
Gardner Machine Co., 444 E. Gardner St., Beloit, Wis.  
Mid-West Abrasive Co., 510 S. Washington St., Owaso, Mich.  
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.  
Norton Co., 1 New Bond St., Worcester 6, Mass.  
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.  
Simonds Abrasive Co., Tacony & Fraley Sts., Philadelphia 37, Pa.

**DISPENSERS, GREASE.** See Lubricators, Portable, High Pressure

**DISTRIBUTOR PARTS.** See Parts, Magneto, Coil and Distributor

## DISTRIBUTORS, Ignition

Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.  
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Also combination governor and distributor.)  
Paragon Products Corp., 140 Astor St., Newark 5, N. J.  
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.  
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

**DISTRIBUTOR TESTING INSTRUMENTS.** See Instruments, Distributor Testing

**DOCKS, Adjustable—See Ramps, Truck Loading**

## DOLLIES, Axle

Bacharach Industrial Instrument Company, 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Saginaw Products Corp., 68 Williamson St., Saginaw, Mich. (Trailer.)  
Wilson, Inc., K. R., Arcade, N. Y. (Rear.)

## DOLLIES, Truck Wheel

Alexander-Jagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hathoro, Pa.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Bernard Franklin Co., Hedley & Bath Sts., Phila. 37, Pa.  
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.  
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Fort Morgan, Colo.  
Dixie Tallyho Inc., Fairburn, Ga.  
Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.  
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.  
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.  
Ken-Tool Mfg. Co., 768 E. North St., Akron, Ohio.  
Immel Co., 502 N. Vermilion, Streator, Ill.  
Meloz Mfg. Co., 4730 Avalon Blvd., Los Angeles, Cal.  
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.  
Schildeimer Co., H. C., 312 N. Senate Ave., Indianapolis 4, Ind.  
Unified Parts Inc., 35 Roetzer St., Buffalo 11, N. Y.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.  
Whitewater Mfg. Co., 520 Jefferson St., White-water, Wis.

**DOOR OPENERS.** See Openers, Bus Door

## DOORS, Overhead, Garage

(Advertisers Only)

Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio.

## DOORS, Overhead, Truck and Trailer

Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Truck body.)  
Truk-A-Door Co., 2457 Woodward Ave., Detroit 1, Mich.

## DOORS, Truck, Steel

Hackney & Sons, J. A., 400 Hackney Ave., Washington, N. C. (Plastic.)  
Kinnear Mfg. Co., 2100 Fields Ave., Columbus 16, Ohio. (Rolling.)  
Kirk & Blum Mfg. Co., 2901 Indiana Ave., Chicago, Ill.  
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.  
Truk-A-Door Co., 2457 Woodward Ave., Detroit 1, Mich. (Roll-up.)

## DRAINERS, Crankcase Oil, Portable and Rapid Type

Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.  
Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.  
Choldun Mfg. Corp., 331 East St., New Haven, Conn.  
Lostro Inc., 2930 E. Highland Ave., Cincinnati 12, Ohio.  
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla.  
Smith Mfg. Corp., Grover, 805 E. Valley Blvd., San Gabriel, Calif.  
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.  
Wherry Engrg. Co., 3229 Morganford Rd., St. Louis 16, Mo.

## DRAIN PLUGS, Crankcase

Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize.)  
Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.

Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.  
Houser Engng. & Mfg. Co., Bluffton, Ind. (Oversize.)  
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Magnetic.)  
Magnetic Drain Plug Co., Wellington, Ohio. (Magnetic.)  
Set Screw & Mfg. Co., 270 Main St., Bartlett, Ill.  
Tourek Mfg. Co., J. J., 1901 S. Kilbourn Ave., Chicago 23, Ill.  
U. S. Plug & Fitting Co., 1807 22nd St., N. E., Canton 5, Ohio. (Magnetic.)  
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa. (Oversize.)  
Weatherhead Co., 300 E. 131th St., Cleveland 8, Ohio.

## DRESSERS, Grinding Wheel

Abrasive Dressing Tool Co., 14528 2nd Blvd., Detroit 3, Mich.  
Black & Decker Mfg. Co., 692 Pennsylvania Ave., Towson 4, Ind.  
Bunke-Musser Inc., Box 386, Jackson Center, Ohio.  
Cleveland Industrial Tool Co., 1080 E. 222nd St., Cleveland 17, Ohio.  
Desmond-Stephen Mfg. Co., 317 S. Walnut St., Urbana, Ohio.  
Diamond Drill Carbon Co., 53 Park Row, New York, N. Y.  
Diamond Tool Co., 246 Broadway, South Haven, Mich.  
General Electric Co., Metallurgical Products Dept., 11777 E. 8 Mile Road, Detroit 32, Mich.  
Hanchett Mfg. Co., 906 N. State St., Big Rapids, Mich.  
Industrial Diamond Co., 2392 Wolcott Ave., Ferndale 20, Mich.  
J. & S. Tool Co., 57 Dora Ave., Livingston, N. J.  
Last Word Sales Co., 18500 Mt. Elliott Ave., Detroit 34, Mich. (Radius.)  
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D.  
Metal Carbides Corp., 107 E. Indianola Ave., Youngstown 7, Ohio.  
Moore Special Tool Co., 740 Union Ave., Bridgeport, Conn.  
Pratt & Whitney Co., Charter Oak Blvd., W. Hartford, Conn.  
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Ross Mfg. Co., 6210 Carnegie Ave., Cleveland 3, Ohio.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Standard Diamond Tool Corp., 71 W. 47th St., New York 36, N. Y.  
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.  
Vincent Steel Process Co., 2424 Bellevue Ave., Detroit 7, Mich.  
Wheel Trueing Tool Co., 3200 W. Davison Ave., Detroit 33, Mich.

**DRILL GRINDERS.** See Grinder, Drill

## DRILL PRESSES

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.  
Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.  
Cincinnati Lathe & Tool Co., Cincinnati 9, Ohio.  
Cleereman Machine Tool Corp., 600 Elizabeth St., Green Bay, Wis.  
Dumore Co., 1300 17th St., Racine, Wis.  
Leland-Gifford Co., 1001 Southbridge St., Worcester 3, Mass.  
Morris Machine Tool Co., 933 Harriet St., Cincinnati 3, Ohio.  
Rockwell Mfg. Co., Delta Power Tool Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.  
South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.  
Walker-Turner Div., Kearney & Trecker Corp., 900 North Ave., Plainfield, N. J.

## DRILLS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.



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## DRILLS—continued

Buckeye Tools Corp., 5005 Sprinboro Pike, Dayton 9, Ohio.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.  
Cummins Portable Tools Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.  
Kent-Moore Organisation, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.  
Kett Tool Co., 5055 Madison Road, Cincinnati 27, Ohio.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Mall Tool Co., 2500 S. Western Ave., Forest Park, Ill.  
Millers Falls Co., Greenfield, Mass.  
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.  
Portable Elec. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.  
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.  
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.  
Signal Mfg. Co., 59 Bennett St., Lynn, Mass.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Speed Way Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.  
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.  
Thor Power Tool Co., Prudential Bldg., Chicago 11, Ill.  
United States Electrical Tool Div. Emerson Electric Mfg. Co., 1050 Findlay St., Cincinnati 14, Ohio.  
Wen Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.  
Wilson, Inc., K. R., Arcade, N. Y.

## DRILLS, Portable Pneumatic

Air-Speed Tool Co., 1502 W. Slawson Ave., Los Angeles 47, Calif.  
Aro Equipment Corp., Bryan, Ohio.  
Brown Tool Mfg. Co., 9422 Trenton Ave., St. Louis 14, Mo.  
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y.  
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland, Ohio.  
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.  
Mall Tool Co., 2500 S. Western Ave., Forest Park, Ill.  
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.  
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.  
Skil Corp., 5038 Elaton Ave., Chicago 30, Ill.  
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

DRIVER TESTING EQUIPMENT, See Testers, Driver

## DRIVERS, Bushing

Bonney Forge & Tool Works, 2400 Rockhill Rd., N. Alliance, Ohio.  
Cal-Van Machine Products, Inc., 801 S. Water St., Jackson, Mich.  
Douglas Tool Co., 5251 Pattison Ave., St. Louis 10, Mo.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscebel, Wis.  
Indestro Mfg. Co., 2649 N. Kilare Ave., Chicago, Ill.  
Mechanics Tool & Forge Co., Howard St., Sabina 1, Ohio.  
Miller Co., L. B., 336 W. Main St., Stamford, Conn.  
Nase Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.

Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Illinois.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

## DRUMS, Brake

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, L. I., N. Y. (Aluminum fins bonded to cast iron.)  
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa. (Combination iron and steel.)  
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Sand cast.)  
Copperweld Steel Co., Glassport Div., Glassport, Pa. (Pressed steel with copper fins.)  
Crosby Co., 183 Pratt St., Buffalo, N. Y. (Pressed steel.)  
Dayton Steel Foundry Co., P. O. Box 1022, Dayton 1, Ohio.  
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Cast alloyed iron.)  
Frank Foundries Corp., 2020 Third Ave., Moline, Ill.  
Gunite Foundries Corp., 202 Peoples Ave., Rockford, Ill.  
Homan & Co., 511 Reading Rd., Cincinnati 15, Ohio.  
Hunt-Spiller Mfg. Corp., 383 Dorchester Ave., South Boston 27, Mass. (For buses or trucks.)  
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (For truck trailers.)  
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich. (Composite iron and steel.)  
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.  
Motor Wheel Corp., 7352 Saginaw St., Lansing 3, Mich.  
Reynolds Mfg. Co., 600 Prospect Ave., Springfield 2, Mo. (Specially alloyed iron.)  
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Special alloy iron.)  
Transue & Williams Steel Forging Corp., 600 Ely St., Alliance, Ohio. (Pressed steel.)

DRYING LAMPS, See Lamps, Drying, Baking and Heating

## DUMPERS (Construction & Off Highway)

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
Euclid Div., General Motors Corp., 1361 Char-don Rd., Cleveland 17, Ohio.  
Koehring Co., 3026 W. Concordia Ave., Milwaukee 16, Wis.  
LeTourneau-Westinghouse Co., Peoria, Ill.  
Wooldridge Manufacturing Div., Continental Copper & Steel Industries, Inc., Hendy Ave., Sunnyvale, Calif.

## DYNAMOMETERS, Chassis Testing

Bennett-Feragen, Inc., 1005 South Lafayette Blvd., South Bend 18 Ind.  
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)  
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)  
Nankervis Co., George L., 15300 Fullerton St., Detroit 27, Mich.

## DYNAMOMETERS, Engine Testing

Clayborne Mfg. Co., 429 N. Main St., Montecello, Ind.  
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Hydraulic.)  
Eaton Mfg. Co., Dynamatic Div., 3307 14th Ave., Kenosha, Wis. (Eddy current.)  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y. (Electric.)  
Link Engrg. Co., 13845 Elmira Ave., Detroit 27, Mich. (Electric.)  
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)  
Nankervis Co., George L., 15300 Fullerton St., Detroit 27, Mich.  
Taylor Dynamometer & Machine Co., 6411 River Parkway, Milwaukee 13, Wis.  
Toledo Scale Co., Telegraph Rd., Toledo 13, Ohio.  
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

ELECTRODES, WELDING, See Rods, Welding

## ELECTROLYTE, Battery

American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
du Pont de Nemours & Co., E. I., Grasselli Chemicals Dept., Wilmington 98, Del.  
Gould-National Batteries, Inc., Industrial Div., 467 Calhoun St., Trenton 7, N. J.  
Motor Kool Prods. Co., 505 Buttes Ave., Columbus 8, Ohio.  
Vitalyte Corp., 3976 N.W. 28th St., Miami, Fla.  
EMERY CLOTH, See Sandpaper

## ENAMELS, Synthetic Resin Base (See also Lacquers)

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.  
Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio.  
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa.  
American Paint Co., 902 Larabee St., Chicago 10, Ill. "Dalax." (For commercial vehicles.)  
American Varnish Co., 1138 N. Branch St., Chicago 22, Ill.  
Arco Co., 7391 Bessemer Ave., Cleveland 27, Ohio.  
Automotive Finishes, Inc., P. O. Box 467, Northwestern Station, Detroit 4, Mich.  
Baer Bros., 438 W. 37th St., New York, N. Y.  
Brown Co., Andrew, 5431 District Blvd., Los Angeles 22, Calif.  
Bruning Bros., Inc., 4209 E. Chase St., Baltimore 6, Md.  
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.  
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.  
Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit, Mich.  
du Pont de Nemours & Co., E. I., Finishes Div., Refinish Sales, Wilmington 98, Del.  
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill.  
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.  
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio.  
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn.  
Glidden Co., 900 Union Commerce Bldg., Cleveland 14, Ohio.  
Hock Paint, Inc., Box 190, Phoenixville, Pa.  
Horn Co., A. C., Products Finishes Div., 10th St. & 44th Ave., Long Island City 1, N. Y.  
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago, Ill.  
Interstate Enamel & Varnish Co., 323 W. 15th St., Indianapolis, Ind.  
M-M-A Inc., Coho Bldg., Lancaster, Pa.  
McDougall-Butler Co., 2929 Main St., Buffalo 14, N. Y.  
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.  
Midland Paint & Varnish Co., 3801 E. 91st St., Cleveland 5, Ohio.  
Modern Paint Co., 305 Eastern Ave., Chelsea 50, Mass.  
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo.  
Nason & Co., R. N., 151 Potrero Ave., San Francisco 3, Calif.  
Oxidermo Products, Inc., Springport, Mich.  
Pittsburgh Plate Glass Co., Paint Div., 1 Gateway Center, Pittsburgh 22, Pa.  
Plasti-Kote, Inc., 9801 Harvard Rd. N.W., Cleveland 5, Ohio.  
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich.  
Seymour of Sycamore, Inc., 218 Lucas St., Sycamore, Ill.  
Sherwin-Williams Co., 101 Prospect Ave., N.W., Cleveland 1, Ohio.  
Standard-Toch Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.  
Steelcote Mfg. Co., 2418 Gratiot Ave., St. Louis 3, Mo.  
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich.  
Vita-Var Corp., 46 Albert Ave., Newark, N. J.  
Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.  
Wilbur & Williams Co., 130 Lincoln St., Brighton, Mass.  
Zac-Lac Paint & Lacquer Corp., 350 Simpson St., N.W., Atlanta 13, Ga.



*Another amazing battery development...*



## **THE "DOUGHNUT" BATTERY... the all around battery with a hole**

- ★ Lasts forever because it never ends
- ★ Eliminates end-cell failure because there are no end-cells
- ★ Holds its charge because the current can't get away
- ★ Cranks faster because the amperes go round and round
- ★ Easy to service . . . just start at the beginning and keep going around
- ★ Provides handy storage space for tools, sandwiches, road maps, etc.

If this sounds fantastic to you, don't worry. It is! But look at it this way . . . if the need for something like the DOUGHNUT Battery ever develops, you can bet that we will do the developing. You should expect that from a company that already has contributed so many advances in battery design and construction . . . that has 69 years of experience in building thousands of types of storage batteries for virtually every application where it is possible to use them.

This means more months and miles of low-cost, trouble-free battery service . . . when you equip your vehicles with Exide batteries.

**Exide**  
BATTERIES

EXIDE AUTOMOTIVE DIVISION, THE ELECTRIC STORAGE BATTERY CO.  
P. O. Box 6266, Cleveland 1, Ohio

# engines to extinguishers

CCJ's Product Directory

## ENGINES, Butane and Propane (Bus and Truck)

Continental Motors Corp., Muskegon, Mich.  
Fageol Products Co., 700 Stow St., Kent, Ohio.  
(Propane.)  
Hall-Scott Inc., 2850 Seventh St., Berkeley 10, Calif.  
Hercules Motors Corp., 101 Eleventh St. S.E., Canton 2, Ohio.  
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.  
Le Roi Div., Westinghouse Air Brake Co., Milwaukee 1, Wis.  
Reo Motors Inc., 1331 S. Washington Ave., Lansing 20, Mich.  
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.

## ENGINES, Diesel, Truck and Bus

Allis-Chalmers Mfg. Co., Buda Div., 1135 S. 70th St., Milwaukee 1, Wis.  
Burneister & Wain American Corp., Lathrop Engine Div., Holmes St., Mystic, Conn.  
Continental Motors Corp., Muskegon 82, Mich. (Truck, tractor, bus.)  
Cummins Engine Co., Fifth & Union Sts., Columbus Ind.  
Curtis-Wright Corp., Utica, Mich. (Mercedes-Benz.)  
Diesel Energy Corp., 143 Liberty St., New York 6, N. Y. (Deutz.)  
Fageol Products Co., 789 Stow St., Kent, Ohio.  
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.  
Harnischfeger Diesel Engine Div., Crystal Lake, Ill.  
Hercules Motors Corp., 101 11th St., S. E. Canton 2, Ohio.  
Mack Trucks, Inc., 1355 W. Front St., Plainfield, N. J.  
P & H Diesel Engine Div., Harnischfeger Corp., 500 S. Main St., Crystal Lake, Ill.  
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.  
White Diesel Engine Div., White Motor Co., 1401 Sheridan Ave., Springfield, Ohio.

## ENGINES, Gasoline, Small

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis. (Single cylinder, 4-cycle air-cooled.)  
Clinton Machine Co., Maple & Clark Sts., Maquoketa, Ia.  
Continental Motors Corp., Muskegon 82, Mich.  
Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.  
Jacobsen Mfg. Co., 747 Washington Ave., Racine, Wis.  
Kermath Mfg. Co., 5890 Commonwealth Ave., Detroit 8, Mich.  
Kohler Co., Kohler, Wis. (Air cooled.)  
Lauson Co., 1604 Michigan St., New Holstein, Wis.  
McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45, Calif.  
Mustang Motor Products Corp., 635 W. Colorado Blvd., Glendale 4, Calif.  
Onan & Sons, Inc., D. W., University Ave., S. E. at 25th St., Minneapolis 14, Minn.  
Power Products Corp., Grafton, Wis.  
Reo Motors, Inc., 1331 So. Washington Ave., Lansing 20, Mich.  
Sensation Mower, Inc., 7577 Burlington St., Ralston, Nebr.  
Universal Motor Co., 487 Universal Drive, Oshkosh, Wis.  
West Bend Aluminum Co., West Bend, Wis.  
Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

## ENGINES, Gasoline, Truck and Bus

(Covering independent engine manufacturers)  
Aircooled Motors, Inc., Liverpool Rd., Syracuse 8, N. Y.  
Allis-Chalmers Mfg. Co., Buda Div., Milwaukee 1, Wis.  
Wannan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y. (Truck.)  
Continental Motors Corp., Muskegon 82, Mich.  
Fageol Products Co., 789 Stow St., Kent, Ohio.  
Ford Motor Co., American Rd., Dearborn, Mich.  
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E. Pontiac 11, Mich.  
Hall-Scott Inc., 2850 Seventh St., Berkeley 10, Calif. (Truck, bus and fire truck.)  
Hercules Motors Corp., 101 11th St., S. E. Canton 2, Ohio. (Truck, tractor and bus.)

International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill. (Truck, tractor and bus.)  
Le Roi Div., Westinghouse Air Brake Co., 1706 E. 68th St., Milwaukee 14, Wis.  
Reo Motors Inc., 1331 S. Washington Ave., Lansing 20, Mich.  
Studebaker-Packard Corp., 635 S. Main St., South Bend 27, Ind.  
White Motor Co., 342 E. 79th St., Cleveland 1, Ohio.  
Waukesha Motor Co., E. St. Paul Ave., Waukesha, Wis. (Truck and bus.)  
Willys Motors, Inc., Kaiser Motors Corp., 904 N. Cove Blvd., Toledo, Ohio. (Truck.)

## ENGINES, Industrial

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
Caterpillar Tractor Co., Peoria 8, Ill.  
Continental Motors Corp., Muskegon 82, Mich.  
Cummins Engine Co., Fifth & Union Sts., Columbus, Ind.  
Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Dr., Detroit 28, Mich.  
Ford Motor Co., American Rd., Dearborn, Mich.  
Hercules Motors Corp., 101 Eleventh St. S.E., Canton 2, Ohio.  
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.  
LeRoi Div., Westinghouse Air Brake Co., Milwaukee 1, Wis.  
The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.  
P&H Diesel Engine Div., Harnischfeger Corp., 500 S. Main St., Crystal Lake, Ill.  
Waukesha Motor Co., W. St. Paul Ave., Waukesha, Wis.

EXCHANGERS, HEAT, See Coolers, Oil Temperature  
EXHAUST GAS INDICATOR, See Indicators, Carbon Monoxide

## EXHAUST GAS REMOVING SYSTEMS

Car Mon Products Co., 4554 N. Broadway, Chicago 40, Ill.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Moffatt Prods. Inc., 4824 Triton Dr., Minneapolis 22, Minn.  
National System of Garage Ventilation, Inc., 330 North Church St., Decatur, Ill.

EXHAUST PIPES, See Pipes, Tail and Exhaust

## EXHAUST PROTECTOR

(For Vertical Stack)

Canton Cast Products Co., 2400 13th St., N. E., Canton, Ohio.

## EXPANDERS, Bead, Tubeless Tire

Aeme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.  
Big Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.  
Bishman Mfg. Co., Osseo 26, Minn.  
Cleveland Graphite Bronze Co., Div. of Clevite Corp., 17000 St. Clair Ave., Cleveland 10, Ohio. (Sole distributor to replacement trade Clevite Service, 6545 Carnegie Ave., Cleveland 8, Ohio.)  
Dalton Foundries Inc., Lincoln & Jefferson Sts., Warsaw, Ind.  
Dixie Tallyho Inc., Fairburn, Ga.  
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.  
Hopkins Mfg. Corp., 428 Peyton Ave., Emporia, Kans.  
Jefferson Engrg. & Mfg. Co., 269 Walker St., Detroit 7, Mich.  
Ken-Tuol Mfg. Co., 768 E. North St., Akron 6, Ohio.  
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)

## EXPANDERS, Piston Ring

American Hammered Automotive Replacement Division, 2001 Sanford St., Muskegon, Mich.  
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. (Expanding.)  
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.

Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.  
Royal Piston Ring Co., Bath, N. Y.  
Smalley Accessories Corp., 224 W. Huron St., Chicago, Ill.  
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

## EXPANDERS, Piston Skirt Inserts

Haling Co., 1061 First Ave., Rochester, Minn.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.  
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.  
Thexton Mfg. Co., 7600 Highway 7, Minneapolis 16, Minn.  
Wel-Ever Piston Ring Co., Speilbusch Ave. nr. Jackson St., Toledo 1, Ohio.  
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo.

## EXPANDERS, Piston Skirt

Haling Co., 1061 First Ave., Rochester, Minn.  
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich. (Air operated hammers.)  
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.  
Master Products Mfg. Co., 3480 E. 14th St., Los Angeles 23, Calif.  
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6653 Easton Ave., St. Louis 14, Mo.  
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.  
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.  
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.  
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis.  
Wel-Ever Piston Ring Co., Speilbusch Ave. nr. Jackson St., Toledo 1, Ohio.  
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo.  
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

## EXTINGUISHERS, Fire, Portable

Allen Mfg. Co., 566 W. Lake St., Chicago, Ill.  
American-LaFrance Corp., 100 E. LaFrance St., Elmira, N. Y.  
Ansul Chemical Co., Fire Extinguisher Div., Marinette, Wis. (Dry chemical.)  
Anthes Force Oiler Co., Ft. Madison, Iowa.  
Astoria Mfg. Co., 42-02 Vernon Blvd., Long Island City 1, N. Y.  
Beacon Devices, Inc., 74 Olive St., North Tonawanda, N. Y. (Portable units, inflates tires or extinguishes fires.)  
Bostwick Laboratories, Inc., Aerosol Div. of B. T. Babbitt Inc., 625 Madison Ave., New York 22, N. Y.  
Buffalo Fire Appliance Corp., 221 Crane St., Dayton 1, Ohio.  
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago 24, Ill.  
Dietz Co., R. E., 225 Wilkinson St., Syracuse, N. Y.  
Elkhart Brass Mfg. Co., 1302 W. Beardsley Ave., Elkhart, Ind.  
Fire-Killer Mfg. Co., 107 N. Franklin St., Syracuse 1, N. Y.  
Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.  
General Detroit Corp., 110 Mt. Elliott Ave., Detroit 7, Mich. (Eastern United States.)  
General Pacific Corp., 8740 Washington Blvd., Culver City, Calif.  
Heet Div. of Demert & Dougherty Inc., 8001 W. 47th St., Chicago 32, Ill.  
Justrite Mfg. Co., 2061 No. Southport Ave., Chicago 14, Ill.  
Kent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich.  
Kiddie & Co., Inc., Walter, 675 Main St., Belleville 9, N. J.  
Lenk Mfg. Co., 30-38 Cummington St., Boston 15, Mass.  
Merlite Industries, Inc., 114 E. 32nd St., New York 17, N. Y.  
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio.  
Power-Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Combination tire inflator and fire extinguisher.)  
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.  
Pyrene-C-O-Two, Div. of Fyr-Fyter Co., P. O. Box 750, Newark, N. J.



## Need Cable for Heavy Duty? *ask for cable made by WALKER*

Take Walker Trailer Lighting Cable for example! This multiple conductor cable has to be able to take a beating . . . and Walker's special outer jacket of rubber compound has that extra toughness required.



Photo courtesy of Eastern Express, Inc.

### Says the fleet owner . . .

"The fact that we use and have used Walker Trailer Lighting Cable and other Walker Automotive wires and cables for many years is recommendation in itself. We have had a very favorable experience

with Walker Products."—So says Welby M. Frantz, Executive Vice President of Eastern Express, Inc., Terre Haute, Ind.

Photo courtesy of  
Truck Parts & Equipment Co.



### Says the jobber . . .

"We like Walker cable because it's built to ATA specs and has a proven record of giving good service. Also, because of its attractive finish and because it's nation-

ally known, we find it easy to sell."—So says Joe Goldstein, President of Truck Parts & Equipment Co., Philadelphia, Pa.



## WALKER BROTHERS

Automotive Wire & Cable Division

Conshohocken, Pa.

## extractors to fans ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

### EXTINGUISHERS—continued

Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.  
Red Comet, Inc., Red Comet Bldg., Littleton, Colo.  
Safety Fire Extinguisher Co., 293 7th Ave., New York 1, N. Y.  
Safety First Prods. Corp., 175 Saw Mill River Rd., Elmsford, N. Y. (Pressurized.)  
Seco Engrg. & Mfg., Inc., 1300 W. Fort St., Detroit 26, Mich.  
Snyder & Son, M. L., Inc., 1827 E. York St., Philadelphia 25, Pa.  
Stop-Fire, Inc., P. O. Box 9, Monmouth Junction, N. J.  
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

### EXTRACTORS, Bolt and Screw

Arco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Stud.)  
Bonney Forge & Tool Works, 2400 Rockhill Rd., Alliance, Ohio.  
C. & G. Wheel Puller Co., Scio, N. Y. (Stud.)  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Screw.)  
Chicago-Latrobe, 426 W. Ontario St., Chicago 10, Ill. (Screw.)  
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.  
Groove-Rite Tool Co., 40300 Grand River Ave., Farmington, Mich. (Piston screw for Pontiac and Oldsmobile cars.)  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Look & Co., R. J., 343 N. Gay St., Baltimore, Md. (Screw.)  
Miller Co., L. B., 336 W. Main St., Stamford, Conn. (Stud.)  
New Britain Machine Co., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
P & C Tool Co., Box 5926, Milwaukee, Wis.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles, Calif.  
Quality Tools Corp., Railroad St., New Wilmington, Pa.  
Reps Tool Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Also stud.)  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Roddick Tool Co., 1023 Pauline St., Anaheim, Calif. (Screw.)  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Spray Products Corp., 725 Kenilworth Ave., Merchantville 10, N. J.  
Titan Tool Co., E. Main St., Fairview, Pa. (Combination stud driver and remover.)  
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Screw.)  
Walton Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Stud and screw.)  
Whitman & Barnes Div. of United Drill & Tool Corp., 40085 Plymouth Rd., Plymouth, Mich. (Screw.)  
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo. (Stud.)  
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. (Stud.)  
Wilson, Inc., K. R., 215 Main St., Arcade, N. Y.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Stud.)

### EXTRACTORS, Bushing

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.  
Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Atmars Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.  
Beard Tool Co., L. O., Andrew & Friel Sts., Lancaster, Pa.  
Cornwall Quality Tools Co., Mogadore, Ohio.  
Crosier Machine Tool Co., 684 N. Prairie Ave., Hawthorne, Calif.  
Dixie-Jibo Co., 2004 Mullenphy St., St. Louis 6, Mo.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Greb Co., 181 Canton St., Stoughton, Mass.

Ideal Mfg. Co., 2649 N. Kildare St., Chicago, Ill.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Ulmo Tool Co., 2515 Superior St., Cleveland, Ohio.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Horn.)

### FABRICS, Coated Cloth, For Curtains, Seat Covers, Tops and Upholstery

Athol Mfg. Co., 71 Chestnut Hill Ave., Athol, Mass. (For curtains and upholstery.)  
Blossom Mfg. Co., 292 Fifth Ave., New York 1, N. Y. (For curtains.)  
Brockton Stay Co., 24 Essex St., Haverhill, Mass.  
Burlington Mills, Inc., Burlington, Wis. (Plastic coated, for kick plates, dash seals, floor covering.)  
Carpenter & Co., L. E., 170 N. Main St., Wharton, N. J. (Vinyl; sole distributors, A. J. Auchterlonie & Son, Inc., 668 Palisier Ave., Detroit 2, Mich.)  
Columbus Coated Fabrics Corp., 7th & Grant Aves., Columbus 16, Ohio. (For upholstery and trim.)  
Columbus Fiber Mills Co., 45 & River Rd., Columbus, Ga.  
Consolidated Admiral Co., 218 W. 65th St., New York, N. Y. (Plastic Coated.)  
Duncan Co., W. H., 319 Broadway, New York 7, N. Y.  
du Pont de Nemours & Co., E. I., Fabrics Div., Fairfield, Conn. (Rubberized Vinyl plastic coated for upholstery or trim.)  
Duro-Gloss Rubber Co., 30 Lenox St., New Haven, Conn. (Rubber, pyroxylin and synthetic resin coated.)  
Federal Leather Co., 681 Main St., Belleville 9, N. J.  
Goodall-Sanford, Inc., Reading Div., Reading, Mass. (Upholstery; sole distributor, Goodall Vinyl Fabrics, Inc., 1430 Broadway, New York 18, N. Y.)  
Goodrich Co., Industrial Prods., B. F., 500 S. Main St., Akron 18, Ohio.  
Gordon, B., & Co., 141 West 17th St., New York 11, N. Y.  
Haartz Auto Fabric Co., 3 Bridge St., Newton 58, Mass. (For tops and decking.)  
Haartz-Mason, Inc., Mechanical Products Div., Watertown 72, Mass. (For truck tarpaulins, engine covers, etc.)  
Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.  
Hoosier Tarpaulin & Canvas Goods Co., Inc., 1302 W. Washington St., Indianapolis, Ind. (Canvas, flame resistant, mildew resistant, water repellent; Nylon, Paper, Plastic.)  
Interchemical Corp., Cotan Div., 341 Oliver St., Newark 5, N. J.  
Jamestown Finishes, Inc., 125 Blackstone Ave., Jamestown, N. Y.  
Joanna-Western Mills Co., 22nd & Jefferson Sts., Chicago, Ill. (Plastic coated for upholstery trim and seat cover.)  
Landers Corp., Buckingham & Blucher Sts., Toledo 1, Ohio. ("Versilan" for upholstery; "Resilan" for seat cover trim, door panels, etc.)  
Masland Duralather Co., Amber & Willard Sts., Philadelphia 34, Pa.  
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y.  
Pantassote Co., 415 Madison Ave., New York 22, N. Y. (Upholstery.)  
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich.  
Textileather Corp., 607 Madison Ave., Toledo 3, Ohio. (Pyroxylin coated for upholstery and trim; coated for upholstery and trim; vinyl coated knit.)  
Twitchell, Inc., E. W., Third & Somerset Sts., Philadelphia 33, Pa. (Plastic coated, for seat covers.)  
United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., N. Y. 36, N. Y.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Weymouth Art Leather Co., 180 Pearl St., S. Braintree 85, Mass.

## CCJ's Product Directory

### FABRICS, Uniform

Reeves Brothers, Inc., 54 Worth St., New York 13, N. Y.  
Metcalfe Bros. & Co., Inc., 45 E. 17th St., N. Y., N. Y.

### FACINGS, Clutch, Asbestos

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.  
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa.  
Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.  
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.  
Johns-Manville, 22 E. 40th St., New York 16, N. Y.  
National Brake Block Corp., 37-17 57th St., Woodside 77, N. Y.  
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.  
Raybestos-Manhattan, Inc., Equipment Sales Div., Bridgeport, Conn.  
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.  
Russell Mfg. Co., E. Main St., Middletown, Conn.  
Scandinavia Belting Co., 744 Broad St., Newark 1, N. J.  
Thermoid Co., Whitehead St., Trenton 6, N. J.

### FACINGS, Clutch, Cork

Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Rubber and fibre.)

### FACINGS, Clutch, Metallic

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.  
Raybestos-Manhattan, Inc., Equipment Sales Div., 75 E. Main St., Stratford, Conn.  
Wellman Co., S. K., 200 Egbert Rd., Bedford, Ohio.

### FAN BELTS, See Belts, Fan

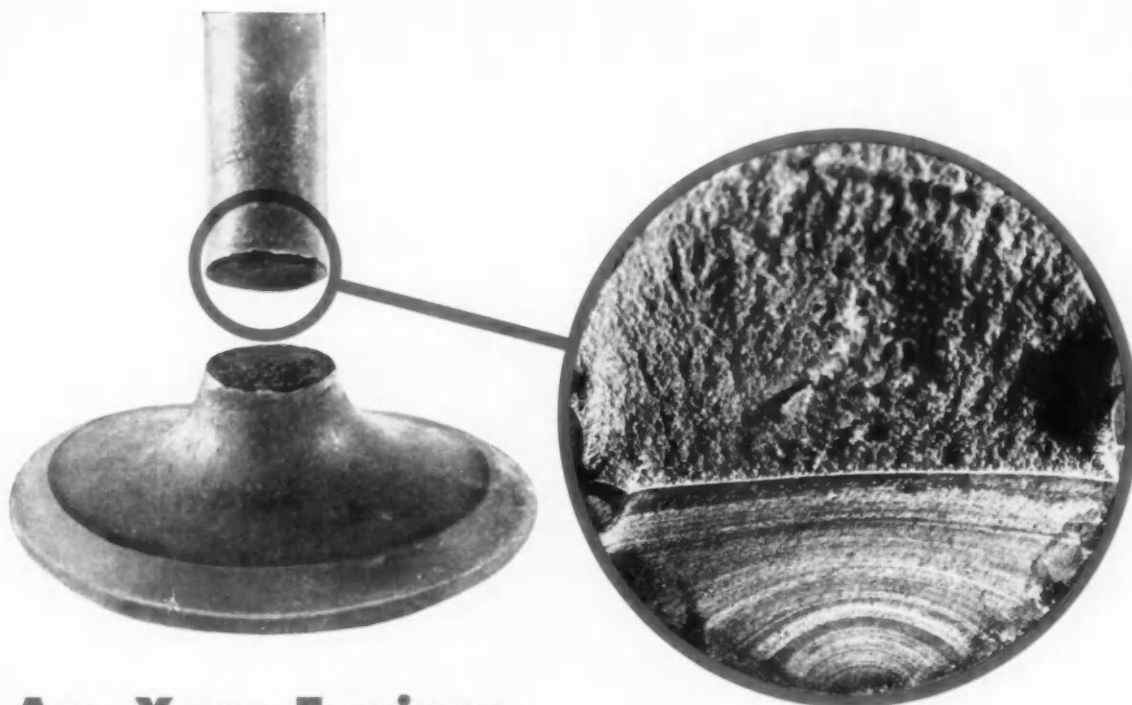
### FANS, Defrosting and Ventilating

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn.  
Chemex Corp., 41 Murray St., New York 7, N. Y.  
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (For trucks and buses.)  
Diehl Mfg. Co., Findernie Plant, 1011 Findernie Ave., Somerville, N. J. (Ventilating for buses.)  
Evans Products Co., 13101 Eckler's Rd., Plymouth, Mich.  
Ha Dees Heater Div. of Gabriel Co., 1911 Harrison Ave., Rockford, Ill.  
Lydon-Bricher Mfg. Co., 2500 University Ave., St. Paul 4, Minn. (For buses and trucks.)  
Roto-Beam, 1755 N. Keeler St., Chicago 32, Ill.  
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.  
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (Vacuum, defrosting.)

### FANS, Exhaust Drying

American Blower Corp., Detroit 32, Mich.  
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.  
Buffalo Forge Co., 490 Broadway, Buffalo 4, N. Y.  
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.  
Clara Fan Co., North & Porter Sts., Kalamazoo, Mich.  
DeVilbiss Co., 309 Phillips Ave., Toledo 1, O.  
Emerson Electric Mfg. Co., 8100 Florissant Ave., Detroit 21, Mich.  
Ing Electric Ventilating Co., 2559 Pulaski Rd., Chicago 41, Ill.  
Joy Mfg. Co., 333 Oliver Bldg., Pittsburgh 22, Pa.  
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.  
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.  
Spray Engineering Co., 114 Central St., Somerville 45, Mass.



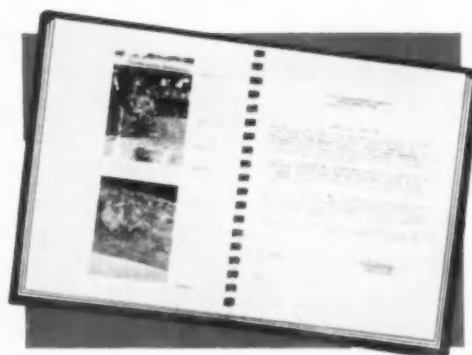


## Are Your Engines Plagued by Failures Like This?

### Eaton Engineers Can Help You Solve This Problem

The photographs above illustrate a typical fatigue-type failure caused by overstressing, in which fracture starts at the surface and, with repeated high stress, progresses to final break.

If you are an engine manufacturer and are having valve gear problems, Eaton engineers will be glad to consult with you and recommend procedures to help solve them. Or if you are designing new engines, perhaps our past valve experience can be valuable to you. Write, wire, or phone — there's no obligation.



#### *Eaton Technical Reports are Available to Manufacturers*

Eaton valve engineers will be glad to make a thorough study for you and furnish a complete technical report.

**EATON** ——— VALVE DIVISION ———  
**MANUFACTURING COMPANY**  
9771 FRENCH ROAD • DETROIT 13, MICHIGAN



**PRODUCTS:** Engine Valves • Tappets • Hydraulic Valve Lifters • Valve Seat Inserts • Jet Engine Parts • Hydraulic Pumps • Motor Truck Axles • Permanent Mold Gray Iron Castings • Forgings • Heater-Defroster Units • Automotive Air Conditioners • Fastening Devices • Cold Drawn Steel • Stampings • Gears • Leaf and Coil Springs • Dynamatic Drives, Brakes, Dynamometers

# we asked truckers what they wanted...

and here's what  
they got in the  
Reo Gold Comet V-8!

An all truck built V-8 engine that's up to 45% more efficient than engines of comparable and even greater displacement. With its "wet-sleeve" construction it's the only V-8 engine of its kind for unlimited engine life. Replaceable cylinders make any number of overhauls practical . . . cutting downtime and maintenance costs in half. A good thing to remember in selecting the "Big V" that's truly designed throughout—not "warmed over" and "beefed up"—to handle today's bigger trucking burdens.

**REO DIVISION** LANSING 20, MICHIGAN  
THE WHITE MOTOR COMPANY



**REO**

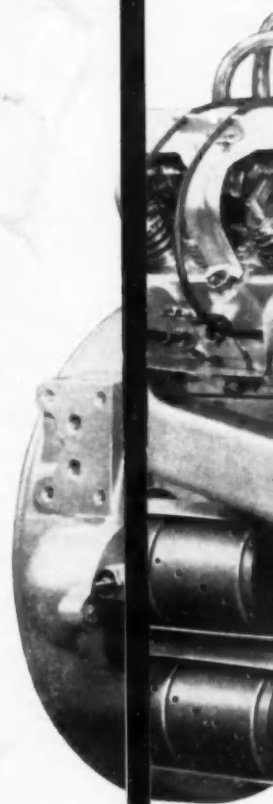
build an all-truck  
engine!

Reo's Gold Comet V-8 is 100% truck built to begin with—not "beefed up"—right down to its tough special alloy steel cylinder walls. No passenger car components used.

double the  
engine life!

Reo's exclusive dual oil filters help do just that. By-pass and full-filtering reduce wear and friction as does many of its other exclusive features such as Reo's oil temperature stabilizer, hi-velocity cooling, sodium-filled valves and crankcase ventilating system.

give  
And Reo  
line or  
comple  
ments o



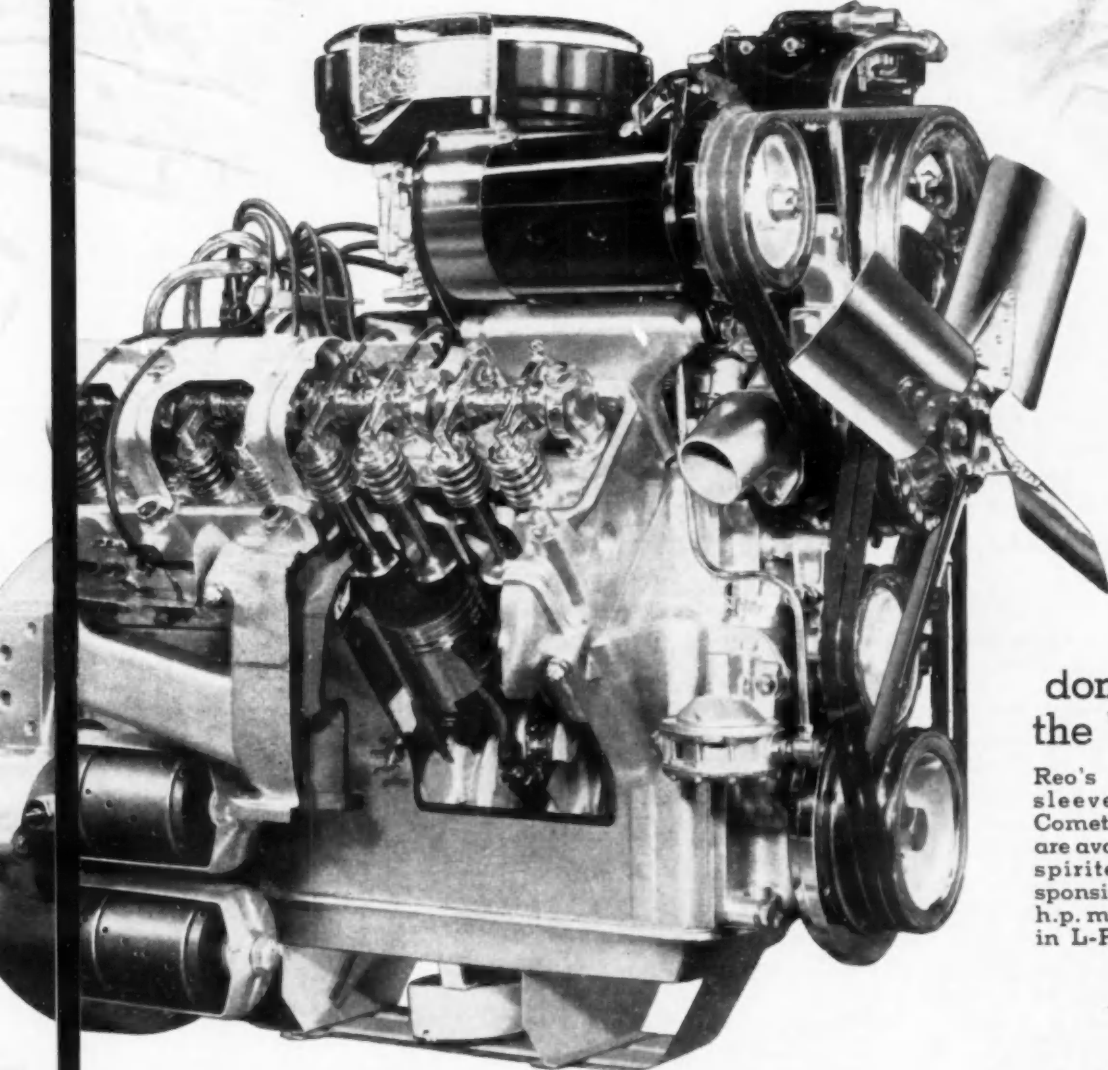
give us a choice of fuels!

And Reo does that today in either gasoline or liquid propane engines. Each completely engineered to the requirements of the specific fuel.

we want more power . . .  
but more efficient, too!

Reo's Gold Comet V-8 power adds up to more road power at the wheels where it pays off. Up to 45% more efficient than engines of comparable and even greater displacement . . . and at governed engine speeds.\*

*\*Ask us to prove it!*



don't spare  
the "horses"!

Reo's modern "wet-sleeve" V-8 Gold Comet truck engines are available today in spirited, super responsive 207 and 235 h.p. models—(220 h.p. in L-P Gas Models).

let's have longer life  
with less maintenance!

Reo engines have unlimited working life. Their "wet-sleeves" make any number of overhauls practical, eliminate re-boring and refitting and cut downtime and maintenance costs in half.

## fans to filters

CCJ's Product Directory

### FANS—continued

Standard Electric Mfg. Co., Haddon Ave., West Berlin, N. J.  
Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 36, Mass.

### FANS, Radiator

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
Eaton Mfg. Co., 739 E. 40th St., Cleveland 10, Ohio.  
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich.  
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.  
Schwitzer Corp., 1125 Massachusetts Ave., Indianapolis 7, Ind.  
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind.

### FASTENERS, Sheet Metal

Carr Fastener Co., 31 Ames St., Cambridge, Mass.  
Champ Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.  
Dzus Fastener Corp., P. O. Box 185, Babylon, L. I., N. Y.  
Lamson & Sessions Co., 1971 W. 85th St., Cleveland, Ohio.  
Palnut Co., 54 Glen Rd., Mountaineer, N. J.  
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.  
Simmons Fastener Corp., 1749 N. Broadway, Albany, N. Y.  
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.  
Steck Mfg. Co., 1312 Bolander Ave., Dayton 8, Ohio. (For fenders.)  
Tinnerman Products, Inc., 8700 Brookpark Rd., Cleveland, Ohio.  
United-Carr Fastener Corp., 31 Ames St., Cambridge 42, Mass.

**FELT, INSULATING, See Insulation, Felt, Hair, Paper, etc.**

### FENDERS

Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.  
Bath Co., Cyril Metal Form Div., 32280 Aurora Rd., Solon, Ohio.  
Binkley Mfg. Co., Warrenton, Mo.  
Budd Mfg. Co., Edw. G. Hunting Park Ave. & 25th St., Philadelphia, Pa.  
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Truck to order.)  
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.  
Cook Metal Wks., Inc., 237 S. Campbell Ave., Kiahwaukee, Ind.  
Cutler Metal Products Co., 1029 Line St., Camden, N. J.  
Hart Metal Products Corp., 3333 Hammond Ave., Elkhart, Ind.  
Kirk & Blum Mfg. Co., 3120 Farrer St., Cincinnati 9, Ohio. (Bus.)  
Metal Auto Parts Co., 1428 W. Henry St., Indianapolis 7, Ind.  
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus, truck and fire engines.)  
Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich.  
Stolper Steel Products Corp., 300 Tipp St., Menomonee Falls, Wis.  
York Corrugating Co., Adams St. & W. Md. R. R., York, Pa. (Truck and trailer.)  
Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio.

**FIFTH WHEEL, See Wheels, Fifth**

### FILES, Contact Point

Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.  
Heller Tool Co., Heller Dr., Newcomerstown, Ohio.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
Loock & Co. R. J., 343 N. Gay St., Baltimore, Md.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.

Miller Co., L. B., 336 W. Main St., Stamford, Conn.  
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.  
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
Rinck-McIlwaine Inc., 16 Hudson St., New York 13, N. Y.  
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Tacony File & Hardware Co., 7225 Wiasinoming St., Philadelphia 35, Pa.  
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

**FILLER, Body Repair, See Compounds, Body Repair**

**FILTERS, AIR, See Cleaners, Air**

### FILTERS, Coolant

American Octanator Corp., 549 Reservoir St., Cranston, R. I.  
Fram Corp., Providence 16, R. I.  
Perry Filter Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.

### FILTERS, Diesel Fuel

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Air-Maze Corp., 25000 Miles Rd., Cleveland 28, Ohio.  
American Bosch Div. American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.  
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.  
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.  
Commercial Filters Corp., 2 Main St., Melrose 76, Mass.  
DeLuxe Products Corp., 1200 Michigan Blvd., Racine, Wis.  
Fram Corp., Providence 16, R. I.  
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y.  
Indiana Commercial Filters Corp., Lebanon, Ind.  
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.  
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.  
Truck Accessories Co., 2512 W. Olympic Blvd., Los Angeles 6, Calif.  
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.  
Winslow Engrg. & Mfg. Co., 4069 Hollis St., Oakland 8, Calif.

### FILTERS, Gasoline

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Alloy Mfr. Co., 3207 S. Shields Ave., Chicago 16, Ill.  
Autopulse Corp., 213 E. Dowland St., Ludington, Mich.  
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.  
Carter Carburetor Div. of A C F Industries, Inc., 2840 N. Spring Ave., St. Louis 7, Mo.  
Century Gas Equipment Co., 6855 E. Rosecrane St., Paramount, Calif. (LP Gas.)  
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.  
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.  
Engine Accessories Mfg. Co., 5801 E. Beverly Blvd., Los Angeles 22, Calif.  
Fram Corp., Providence 16, R. I.  
Hygrade Products, Div. Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
J & S Carburetor Co., 2634 N. Beckley Ave., Dallas 2, Texas.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.  
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.

Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.  
Prior Products, Inc., P. O. Box 349, Middletown, Ohio.  
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.  
Sparkler Mfg. Co., Lake St., Mundelein, Ill.  
Tillotson Mfg. Co., 761 Berdan St., Toledo 12, Ohio.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

### FILTERS, Oil

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Bendix-Skinner Div., Bendix Aviation Corp., 434 W. 12 Mile Rd., Royal Oak, Mich.  
Bolser Corp., S. Main St., Cedar Falls, Iowa.  
Briggs Filtration Co., Automotive Div., River Road, Washington 16, D. C.  
Commercial Filters Corp., 2 Main St., Melrose 76, Mass.  
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.  
Cuno Engrg. Corp., 80 S. Vine St., Meriden, Conn.  
De Luxe Products Corp., 1200 Michigan Blvd., Racine, Wis.  
Engine Accessories Mfg. Co., 5801 E. Beverly Blvd., Los Angeles 22, Calif.  
Fram Corp., Providence 16, R. I.  
Hastings Mfg. Co., N. Hanover St., Hastings, Neb.  
Hilliard Corp., 113 W. 4th St., Elmira, N. Y.  
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.  
Indiana Commercial Filters Corp., Lebanon, Ind.  
International Refinol Co., 6513 W. Pershing Rd., Berwyn, Ill.  
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.  
Nugent & Co., Wm. W., 3440 Cleveland St., Skokie, Ill.  
Oilpure Refiner Sales Co. (Oil Refiner), 507 Fifth Ave., New York, N. Y.  
Pick Mfg. Co., West Bend, Wis.  
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.  
Truck Accessories Co., 2512 W. Olympic Blvd., Los Angeles 6, Calif.  
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.  
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
Winslow Engrg. & Mfg. Co., 4069 Hollis St., Oakland 8, Calif.  
Wix Corp., 1211 Ozark St., Gastonia, N. C.

### FILTERS, Oil Refills

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.  
Bolser Corp., S. Main St., Cedar Falls, Iowa.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Briggs Filtration Co., Automotive Div., River Rd., Washington 16, D. C.  
Buffalo Pressed Steel Co., 460 N. Meridian St., Youngstown 9, Ohio.  
Campbell Filter & Mfg. Co., Rumford, R. I.  
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn.  
Cyclone Filter Corp., 4401 W. North Ave., Chicago 39, Ill.  
De Luxe Products Corp., 1200 Michigan Blvd., Racine, Wis.  
Filters, Inc., 30 Sagamore Hill Dr., Port Washington, L. I., N. Y. (Sole distributors, Bowman Products Co. Cleveland 3, Ohio.)  
Fram Corp., Providence 16, R. I.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.  
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.  
Mac Kense Muffler Co., 460 N. Meridian Rd., Youngstown 9, Ohio.  
Pick Mfg. Co., West Bend, Wis.  
Purulator Products, Inc., 970 New Brunswick Ave., Rahway, N. J.  
Refill Filter Co., 541-15 Ave., Newark 3, N. J.  
W. H. G. Oil Clarified Co., 139 Cornell St., Kingston, N. Y.  
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.  
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Cal.  
Wix Corp., 1211 Ozark, Gastonia, N. C.



# "FINE PERFORMANCE... EXCEPTIONAL OIL MILEAGE"

-- Ogden Bus Lines,  
Ogden, Utah



Here's what Dale Snedden, Ogden Bus Lines, says:

"I just want to take this opportunity to tell you of the fine performance of McQuay-Norris rings and Sleeve Assemblies.

"We have about 39 Buses running under all types of conditions and distances.

"We recently rebuilt a T. G. H. 2708 G. M. C. Bus, with a 270 Engine.

This Bus averages 5000 miles per Month, on start and stop driving.

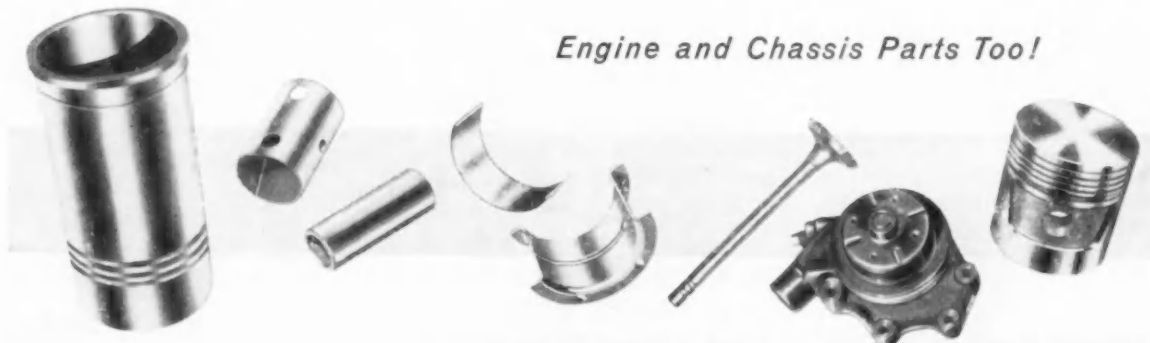
"Even under this tough service, we get exceptional oil mileage using your Leak-Proof Chrome Control set L 2766 CHD. We only have to add one quart of Oil between each 3000 mile Oil and Filter change.

"My thanks to McQuay-Norris for having eliminated the Oil consumption problems we had prior to using your fine products."



**DALE SNEDDEN**  
Parts Department Manager  
Ogden Bus Lines

*Engine and Chassis Parts Too!*



## McQUAY-NORRIS

MANUFACTURING COMPANY

St. Louis • Toronto

**APPROVED ORIGINAL EQUIPMENT FOR CARS, TRUCKS, BUSES AND TRACTORS**

## filters to frames

CCJ's Product Directory

### FILTERS, Oil, Transmission

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo, Mich.  
**FIRE ENGINES.** See Trucks, Fire  
**FITTINGS, TUBE.** See Tube Fittings  
**FLAPS, FENDER.** See Guards, Splash

### FLARES, Highway Lighting

American Automatic Devices Co., Throop St., Chicago 7, Ill. (Oil burning.)  
 Anthes Force Oil Co., Ft. Madison, Iowa. (Oil burning and electric; also fuses.)  
 Arrow Safety Device Co., Mt. Holly, N. J. (Oil burning; also fuses.)  
 Bolser Corp., S. Main St., Cedar Falls, Iowa. (Oil burning; also fuses.)  
 Busch & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill. (Plugs into cigar lighter.)  
 Carpenter Mfg. Co., Sidney & Erie Sts., Cambridge, Mass. (Electric and electric flasher type.)  
 Delbar Products, Inc., 7th & Spruce Sts., Perkasie, Pa.  
 Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Oil burning, also fusee type.)  
 Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. (Electric and kerosene.)  
 Emarco Corp., Far Hills Station, Dayton 9, Ohio.  
 Federal Sign & Signal Corp., 8765 S. State St., Chicago 19, Ill.  
 Gen-A-Matic Corp., 14741 Ressemer St., Van Nuys, Calif. (Electric flasher type.)  
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Oil burning.)  
 K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Oil burning and electric; also fuses.)  
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn. Kilgore, Inc., Westerville, Ohio.  
 S & M Lamp Co., 119 W. 36th Place, Los Angeles 64, Calif.  
 Signal-Stat Corp., 523-539 Kent Ave., Brooklyn 11, N. Y.  
 Standard Railway Fusee Corp., Signal Flare Div., Box 30-C, Needham Heights 94, Mass. (Fusees.)  
 Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Oil burning; also fuses.)  
 Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 21, Pa. (Electric.)  
 U-C Lite Mfg. Co., 1060 W. Hubbard St., Chicago 22, Ill.  
 Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill.  
 Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Oil burning.)

**FLARING TOOLS.** See Tools, Tube Flaring

### FLASHERS, Directional Signal

Arrow Safety Device Co., Mt. Holly, N. J.  
 Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill.  
 Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
 Kilborn-Sauer Co., Post Rd., Fairfield, Conn.  
 Macchi & Co., 819 Valencia St., San Francisco 10, Calif.  
 Signal-Stat Corp., Signal-Stat Bldg., 523-539 Kent Ave., Brooklyn 11, N. Y. (Emergency, for disability parking.)  
 Spartan Automotive Div. of Spartan Corp., Jackson, Mich.  
 Tung-Sol Electric, Inc., 95 8th Ave., Newark 4, N. J.

**FLEET RECORDS.** See Forms

**FLEXIBLE SHAFTING.** See Shafting, Flexible

**FLOOR COVERINGS.** See Covering, Floor

**FLOOR RESURFACERS.** See Resurfacers, Floor

### FLOORING, Truck and Trailer

Alan Wood Steel Co., Conshohocken, Pa.  
 Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa. (Aluminum.)  
 American Abrasive Metals Co., 460 Coit St., Irvington 11, N. J.  
 Consolidated Water Power & Paper Co., Abnawagam Div., P. O. Box 50, Wisconsin Rapids, Wis. (Plastic.)  
 Gramm Trailer Corp., 425 E. O'Connor Ave., Lima, Ohio.

Great Lakes Steel Corp., Ecorse, Detroit 29, Mich. (Steel.)  
 Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. (Steel.)  
 Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Steel.)  
 Revere Copper & Brass, Inc., 230 Park Ave., New York 17, N. Y. (Aluminum.)  
 Reynolds Metals Co., Third & Grace Sts., Richmond 19, Va. (Aluminum.)

### FLUID, Hydraulic Brake and Shock Absorber

Allube Corp., 928 Allen Ave., Glendale 1, Calif.  
 Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.  
 Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. (Brake.)  
 Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Brake.)  
 Carbide & Carbon Chemical Co. (A Div. of Union Carbide & Carbon Corp.), 30 E. 42nd St., New York, N. Y. (Brake.)  
 Castor Oil Products Inc., 145 Alexander St., Yonkers, N. Y. (Brake.)  
 Chicago Hydraulic Oil Co., 371 E. 116 St., Chicago 28, Ill.  
 Drew & Co., E. F., (Automotive Chemicals Div.), 15 E. 26th St., New York, N. Y.  
 du Pont de Nemours & Co., Finishers Div., Specialties Sales, Wilmington 98, Del. (Brake.)  
 Eis Automotive Corp., Middletown, Conn. (Brake.)  
 Gilpak Automotive Products, Div. Packer Auto Parts, Inc., Roselle, N. J. (Brake.)  
 Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.  
 Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. (Brake.)  
 Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.  
 International Metal Polish Co., 1910 Quill St., Indianapolis 11, Ind.  
 Johns Manville Dutch Brand Div., 7800 Woodlawn Ave., Chicago 19, Ill.  
 Loxman Products, Moore & Division Sts., Salisbury, Md. (Brake.)  
 Master Co., 37 Preston Ct., Brooklyn 34, N. Y. (Brake.)  
 Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. (Brake.)  
 Motor Kool Products Co., 505 Buttes Ave., Columbus 8, Ohio. (Brake.)  
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Brake.)  
 Octagon Process Inc., 15 Bank St., Staten Island 1, N. Y.  
 Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.  
 Park Chemical Co., 8074 Military Ave., Detroit 14, Mich.  
 Penetone Co., 74 Hudson Ave., Tenafly, N. J. (Brake.)  
 Permatex Co., 300 Broadway Huntington Station, New York, N. Y.  
 Petroleum Chemicals Co., Tilton Rd., Danville, Ill.  
 Porte Mfg. Co., 3179 Atlantic Ave., Brooklyn 8, N. Y.  
 Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C. (Brake.)  
 Shell Oil Co., 60 W. 50th St., New York 20, N. Y.  
 Sinclair Refining Co., 600 Fifth Ave., New York, N. Y. (Brake.)  
 Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.  
 Stanley Co., John T., 642 W. 30th St., New York, N. Y.  
 Supco Div. of Lisle Corp., 805 E. Main St., Clarinda, Iowa.  
 Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Brake.)  
 Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
 U. S. Chemical & Supply Co., 400 E. 10th Ave., N., Kansas City 16, Mo.  
 United Motor Service, United States Aviax Co., 1350 Maple St., Niles, Mich. (Brake.)  
 Universal Chemical Div. R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.  
 V-O Mfg. Co., 13165 Sherman Ave., North Hollywood, Calif.  
 Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo. (Brake.)  
 Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y.  
 White & Bagley Co., 100 Foster St., Worcester 8, Mass. (Shock absorbers.)  
 Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif. (Brake.)

### FLUID, Starting, Diesels

California Oil Co., The Barber, N. J.  
 Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.  
 Starting Fluid Co., P. O. Box 584, Camden 1, N. J.  
 Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif. (Also gasoline engines.)

### FLUSHERS, Crankcase

Hydro-Air Cleaning Systems, Inc., 11311 Miles Ave., Cleveland 5, Ohio.

### FLUSHERS, Differential & Transmission

Aro Equipment Corp., Bryan, Ohio.  
 Coil Mfg. Co., 1013 N. Fares Ave., Evansville 11, Ind. (Guns.)  
 Dutton-Lainson Co., Mfg. Div., Hastings, Neb.  
 Grav Co., 60 11th Ave., N. E. Minneapolis 13, Minn. (Gear flushers.)  
 Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa.  
 Oakite Products, Inc., 19 Rector St., New York, N. Y.  
 Wilson, Inc., K. R., Arcade, N. Y.

### FLUSHERS, Radiator and Block, Portable

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. (Guns.)  
 Choldun Mfg. Corp., 331 East St., New Haven, Conn.  
 Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. (Nozzles.)  
 Kent-Moore Organization, Inc., 1801 S. Jackson St., Jackson, Mich.  
 Liquid Veneer Corp., 216 E. Ellicott St., Buffalo 3, N. Y.  
 Soderin Corp., 2748 McGee Trafficway, Kansas City, Mo. (Guns.)  
 Tripp Mfg. Co., 133 N. Jefferson St., Chicago 10, Ill.  
 U. S. Chemical & Supply Co., 400 E. 10th Ave., N., Kansas City 16, Mo.

**FLUX, WELDING.** See Compounds, Welding  
**FOG LIGHTS.** See Lamps, Fog, Head and Spot  
**FORK LIFT TRUCKS.** See Trucks, Lift

### FORMS, Fleet Record

Fleet Forms Co., 1410 N. High St., Columbus 16, Ohio.  
 McBee Co., Athens, Ohio.  
 Milbin Printing Co., 132 W. 22nd St., New York 11, N. Y.  
 Uarco, Inc., 5000 S. California Ave., Chicago 32, Ill.  
**FOUNTAIN BRUSHES.** See Washers, Fountain Brushes & Mops

### FRAMES, Pressed Steel

Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.  
 Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
 Midland Steel Products Co., Detroit Div., 6660 Mt. Elliott Ave., Detroit 11, Mich.  
 Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.  
 Parish Pressed Steel Co., Robison & Weiser Sts., Reading, Pa.  
 Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis.  
 Trucktail Mfg. Co., Union Commerce Bldg., Cleveland 14, Ohio.

### FRAMES, Trailer Door

Andrews Industries, Inc., P. O. 418, St. Louis, Mo.

### FRAMES, Truck

Hoosier Tarpanlin & Canvas Goods Co., Inc., 1302 W. Washington St., Indianapolis, Ind.

Sundstrand drive eliminates auxiliary engines

## Assures Refrigeration at all truck speeds!



Reservoir and hydraulic motor of Sundstrand Constant Speed Refrigeration Drive are mounted over the cab in refrigeration unit itself. Pump is mounted under the hood using Sundstrand mounting kit.

Designed—not adapted—for the job of truck refrigeration, the Sundstrand Constant Speed Drive is quiet, compact, needs little or no maintenance and consumes no fuel. Full rated power is transmitted on a continuous-duty basis. Starting and other ordinary overloads are readily sustained for short periods.

Here are a few features of Sundstrand Constant Speed Refrigeration Drives:

**Automatic Temperature Control**—Solenoid valve built into pump connects to truck thermostat. Shuts system down or starts it up as needed.

**Smooth Compressor Starting**—Built-in delay eliminates the jerking normally resulting from compressor load.

**High Efficiency**—Compact system doesn't require a heat exchanger or bypassing oil. Small reservoir contains filter and 1½ quarts of oil.

**Simple Standby Operation**—No declutching is required. The refrigeration unit is merely plugged into an electrical power source.

**Mounting Kits**—Sundstrand mounting kits are designed to fit a particular model of truck. All parts—brackets, pulleys, belts, etc.—needed for complete installation are part of the mounting kit.

Get more details about the three available sizes of Sundstrand Refrigeration Constant Speed Drives by writing today for Bulletin 5002-4.



### SUNDSTRAND HYDRAULIC DIVISION

SUNDSTRAND MACHINE TOOL CO., ROCKFORD, ILLINOIS, U. S. A.

AIRCRAFT AND INDUSTRIAL HYDRAULIC TRANSMISSIONS, PUMPS, MOTORS, AND VALVES  
OIL BURNER PUMPS • AIR SANDERS • LATHES, MILLING, BROACHING AND SPECIAL  
MACHINES • BROACHING TOOLS • MAGNETIC CHUCKS

# fuels to gages

CCJ's Product Directory

## FRONT END ALIGNMENT EQUIPMENT, See Gages, Wheel & Axle Aligning

### FUELS, Engine

American Liquid Gas Corp., 1189 Santa Fe Ave., Los Angeles 21, Cal. (LP-Gas.)  
American Oil Co., American Bldg., Baltimore, Md.  
Associated Division, Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco, Calif.  
Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa.  
Cities Service Oil Co., 60 Wall Tower, New York 6, N. Y.  
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.  
D-X Sunray Oil Co., 907 S. Detroit Ave., Tulsa 2, Okla.  
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.  
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.  
Ethyl Corp., New York 17, N. Y. (Diesel Ignition Improver.)  
Gulf Oil Corp., Gulf Building, Pittsburgh, Pa.  
Mid Continent Petroleum Corp., Tulsa 2, Okla.  
Pennsylvania Refining Co., Butler Savings & Trust Co., Butler, Pa.  
Phillips Petroleum Co., Bartlesville, Okla.  
Pure Oil Co., 85 E. Wacker Drive, Chicago 1, Ill.  
Richfield Oil Corp., Richfield Bldg., 555 S. Flower St., Los Angeles 13, Calif.  
Shell Oil Co., Shell Bldg., San Francisco, Calif.  
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.  
Sinclair Refining Co., 630 Fifth Ave., New York 20, N. Y.  
Mobil Oil Co., Socony Mobil Bldg., 42nd St. & Lexington Ave., New York, N. Y.  
Standard Oil Co. of California, Standard Oil Bldg., San Francisco, Calif.  
Standard Oil Co. (Indiana), 910 S. Michigan St., Chicago 80, Ill.  
Sun Oil Co., Marcus Hook, Pa.  
Texas Co., The, 135 E. 42nd St., New York 17, N. Y.  
Tide Water Associated Oil Co., 17 Battery Place, New York, N. Y.  
Union Oil Co. of California, Union Oil Bldg., Los Angeles 17, Calif.

**FUEL FILTERS.** See Filters, Gasoline; also Filters, Diesel, Fuel  
**FUEL INJECTORS.** DIESEL, See Injector Systems, Gasoline and Diesel Engine  
**FUEL LINES, FLEXIBLE.** See Tubing, Oil and Gasoline Line  
**FUEL PUMP PARTS.** See Parts, Fuel Pump  
**FUEL PUMP TESTERS.** See Testers, Fuel Pump  
**FUEL PUMPS.** See Pumps, Fuel  
**FUSEES.** See Flares, Highway Lighting

### FUSES, Electric

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.  
Bussmann Mfg. Co., 2536 W. University St., St. Louis 7, Mo.  
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City 1, N. Y.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kilgore Inc., Wesserville 1, Ohio.  
Kirkman Engineering Corp., 123 Mercer St., New York 12, N. Y.  
Littlefuse, Inc., 1865 Miner St., Des Plaines, Ill.  
Monarch Electric Corp., 118 E. 1st St., Jamestown, N. Y.  
Preferred Electric & Wire Co., Bush Terminal Bldg., #8, Brooklyn 32, N. Y.  
Reynolds Mfg. Co., 1806 Alamo National Bldg., San Antonio 5, Tex.  
Royal Electric Corp., 95 Grand Ave., Pawtucket, R. I.  
Sightmaster Corp., 111 Cedar St., New Rochelle, N. Y.  
Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wis.  
Ware Fuse Corp., 4406 W. Lake St., Chicago, Ill.

### GAGES, Brake Drum

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
C. & G. Wheel Puller Co., Scio, N. Y.  
Grigg Specialty Tools, 8193 Marbrisse Ave., Huntington Park, Calif.  
Johns-Manville, 22 E. 40th St., New York 16, N. Y.  
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.  
Van Norman Automotive Equipment Co., 3640 Main St., Springfield 7, Mass.

### GAGES, Brake Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
C. & G. Wheel Puller Co., Scio, N. Y.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.  
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.  
Wilson, Inc., K. R., Arcade, N. Y.

### GAGES, Cylinder

(See also Micrometers)

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.  
Chicago Dial Indicator Co., 180 N. Wacker Dr., Chicago 6, Ill.  
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Sole distributors, Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.)  
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.  
Standard Gage Co., Poughkeepsie, N. Y.  
Starrett Co., L. S., 1 Crescent St., Athol, Mass.  
Swedish Gage Co. of America, 10641 Haggerty Ave., Dearborn 1, Mich.

### GAGES, Cylinder, Compression

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Arso Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.  
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill.  
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa. (Diesel engine.)  
Cornwall Quality Tools Co., Mogadore, Ohio.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Fisher Products Corp., A. R., 21-21 44th Drive, Long Island City 1, N. Y.  
G. M. Co. Mfg., Inc., 13-05 43rd Ave., Long Island City, N. Y.  
Griswold Mfg. Co., F. T., Lancaster Pike, Wayne, Pa. (Leak tester.)  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.  
Mack Products Co., 15 Putnam St., Winthrop, Mass.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.  
Weidenhoff Corp., Algonza, Iowa.

### GAGES, Dial

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.  
Boice Mfg. Co., Hyde Park, N. Y. (Snap and bore.)  
Bristol Co., Waterbury 20, Conn.  
Brown & Sharpe Mfg. Co., 233 Promenade St., Providence, R. I.  
Dow Mechanical Corp., Thompsonville, Calif.  
Federal-Mogul Service, Detroit 13, Mich.  
Federal Products Corp., 1144 Eddy St., Providence, R. I.  
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 24, Mich. (Snap.)  
Nilsson Gage Products Inc., Hyde Park, N. Y.  
Rimat Gage Co., 21 W. Dayton St., Pasadena 2, Calif. (Bore.)  
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.  
Standard Gage Co., Poughkeepsie, N. Y.  
Starrett Co., L. S., 1 Crescent St., Athol, Mass.

### GAGES, Engine Vacuum

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Arso Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.  
Monroe Standard Inc., Wyandot Bldg., Gallon, Ohio. (Brake, mounted on trucks & buses.)  
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Syracuse Gauge Co., P. O. Box 51, Manlius, N. Y.  
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.  
Wallace & Tiernan Inc., 25 Main St., Belleville 9, N. J.  
Weidenhoff Corp., Algonza, Iowa.

### GAGES Gasoline, Dash Type

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Electric.)  
Electric Auto-Lite Co., Toledo 1, Ohio.  
King-Seely Corp., 815 S. First St., Ann Arbor, Mich.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill. (Electric.)  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa. (Electric.)

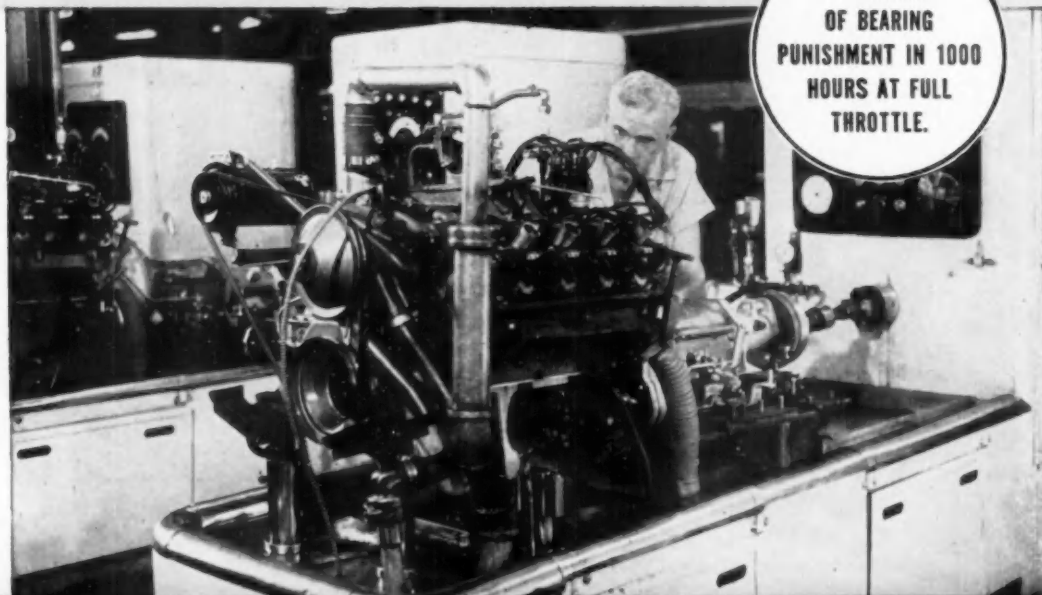
### GAGES Gasoline, Tank Type

Boston Auto Gage Co., 70 West St., Pittsfield, Mass.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.



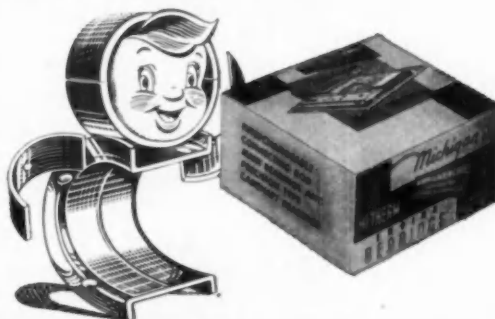
# "SURVIVAL TEST"

**YOU WANT ENGINE BEARINGS  
THAT CAN LIVE THROUGH  
TESTS LIKE THIS...**



**10 YEARS  
OF BEARING  
PUNISHMENT IN 1000  
HOURS AT FULL  
THROTTLE.**

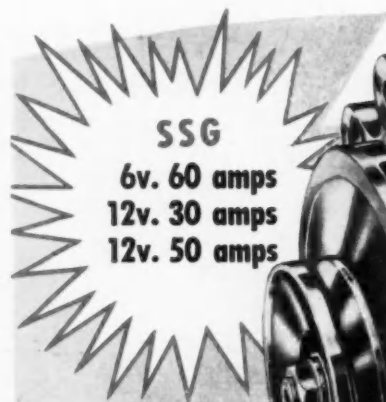
Original equipment customers frequently require the engine bearings we manufacture to survive the tests that equal thousands of trouble-free miles. Our original equipment experience since 1925 assures your customers of complete satisfaction. See your jobber for Michigan Hi Therm Engine Bearings.



## **DETROIT ALUMINUM & BRASS CORP.**

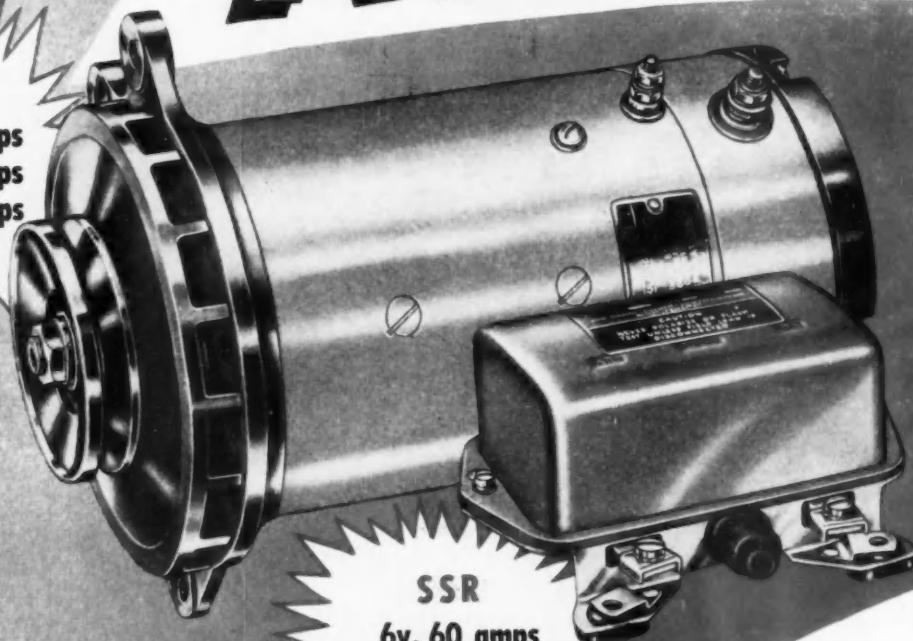
**DETROIT 11, MICHIGAN**

# NEW



## SSG

6v. 60 amps  
12v. 30 amps  
12v. 50 amps



## SSR

6v. 60 amps  
12v. 30 amps  
12v. 50 amps



## NEW, ADVANCED DESIGN

SSG Generators feature 4 field poles for greater maximum output, plus 4 brushes to improve commutation and increase brush life. Revolutionary new, electronically controlled method guarantees extreme accuracy in undercutting slots between commutator segments.

## FULL RANGE OPERATING EFFICIENCY

As much as 20 amps output at slow speeds — full output at only 10-13 mph. Armature windings are embedded in skewed slots and bonded with powerful heat-resisting plastic . . . also banded with Fiberglas tape to withstand exceptionally high speeds (10,000 rpm).

## BUILT-IN "AIR CONDITIONING"

No overheating! Large fan on drive pulley draws in maximum cooling air to increased space between field coils now bonded with new heat-resisting plastic adhesive. Positive heat dissipation throughout entire operational range.

## RUGGED, PRECISION CONSTRUCTION

Heavy, precision balanced, steel shaft armature revolves smoothly on extra large ball bearings. Thick cross section, 5" diameter frame provides excellent path for magnetic flux between field poles. Closer air gap for maximum efficiency. Large pulley decreases belt wear.

# AMERICAN BOSCH

## SPECIAL SERVICE GENERATOR SYSTEMS

### 6v. and 12v.

**All the Amps Your Vehicles  
Will Ever Need—ALL THE TIME**



**ON THE GO, OR  
STOP • AND • GO!**

Today's current consuming electrical accessories and 2-way radios put a terrific strain on conventional generators—a heavy drain on batteries. NOW . . . you can get up to 20 amps output at curb idle; full output at only 10-13 mph with these great NEW SSG American Bosch Special Service Generators that keep your batteries fully charged—your vehicles *ready to roll!*

This great, new 2-unit system quickly and easily replaces the ordinary generator. Includes the NEW SSR 2-stage control Special Service Voltage Regulator that permits heavy charge at low speeds and positive protection against runaway voltage at highest speeds. Three NEW Systems are now available for any kind of operation—6v. 60 amps; 12v. 30 amps; 12v. 50 amps.

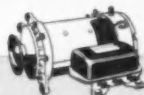
Simple installation—only 2 UNITS. Thoroughly tested in the laboratory and over the road. Get the whole story *today*. See your nearest American Bosch sales agency, or write American Bosch, Springfield 7, Mass. A Division of American Bosch Arma Corporation.



# AMERICAN BOSCH



**Automotive and  
Aviation Magnets**



**Generators and  
Regulators**



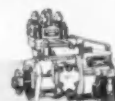
**Components for  
Aircraft Engines**



**Small  
Electric Motors**



**Electric  
Windshield Wipers**



**Diesel Fuel  
Injection Equipment**

## gages to gaskets

## CCJ's Product Directory

### GAGES, Liquid Level, Storage Tank

Bristol Co., Instrument Div., 117 Bristol Rd., Waterbury, Conn.  
Liquidometer Corp., 39-20 Skillman Ave., L. I. City, N. Y.  
Scully Signal Co., 84 First St., Cambridge, Mass.  
Tokheim Co., 119 C Ave., N.W., Cedar Rapids, Ia.  
Uehling Instrument Co., 473 Getty Ave., Paterson 3, N. J.

### GAGES, Oil Level

Bristol Co., Waterbury 20, Conn.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago 14, Ill.  
Trico Fuse Mfg. Co., 2948 N. 5th St., Milwaukee 12, Wis.

### GAGES, Oil Pressure

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical and electric.)  
Bristol Co., Waterbury 20, Conn.  
Dunn Mfg. Co., 117 18th St., Clarinda, Iowa.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
King-Seely Corp., 315 S. First St., Ann Arbor, Mich.  
Murphy Mfr. Inc., Frank W., 5428 E. Admiral Pl., Tulsa, Okla. (With safety switch.)  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
Schwarze Electric Co., Church St. at Payne Ave., Adrian, Mich.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

### GAGES, Thickness or Feeler

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.  
Arasco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.  
Bonney Forge & Tool Works, 2400 Rockhill Rd., N. Alliance, Ohio.  
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.  
Central Tool Co., 456 Wellington Ave., Cranston 10, R. I.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
D'Neumart Inc., 100 Maple St., Ashburnham, Mass.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Dial indicator.)  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.  
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Klopp Engrg. Inc., 35551 Schoolcraft St., Levonia, Mich.  
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 25, Mich.  
Lufkin Rule Co., Hess Ave., Saginaw, Mich.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Miller Co., L. B., 336 W. Main St., Stamford, Conn.  
Millers Falls Co., Greenfield, Mass.  
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
P. & C Hand Forged Tool Co., Box 5926, Milwaukee, Ore.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.

Proto Tools, 2209 Santa Fe Ave., Los Angeles, 54, Calif.  
Quality Tools Corp., Railroad St., New Wilmington, Pa.  
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
Sheffield Corp., 721 Springfield St., Dayton 1, Ohio.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Also feeler stock.)  
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa.  
Union Tool Co., 48 E. River St., Orange, Mass.  
Van Keuren Co., 176 Waltham St., Watertown, Mass.  
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.  
Williams & Co., J. H., 400 Vulkan St., Buffalo 7, N. Y.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### GAGES, Tire Pressure

(See also Meters, Air Tower)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.  
Amseco Inc., 564 W. Randolph St., Chicago 6, Ill.  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.  
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.  
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.  
Drugs Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. (Sole distributors, Tru-Plate, Inc., 888 92nd Ave., Oakland 3, Calif.)  
G.M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.  
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.  
Schrader's Son, Div. of Scovill Mfg. Co., Inc., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.  
Syracuse Gauge Co., P. O. Box 51, Manlius, N. Y.

### GAGES, Water Temperature

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical and electric.)  
Electric Auto-Lite Co., Toledo 1, Ohio.  
King-Seely Corp., 315 S. First St., Ann Arbor, Mich.  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Pkwy., Chicago, Ill.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
United States Gauge Div. of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.

### GAGES, Wheel and Axle Aligning

Bean Div. Food Machinery & Chemical Corp., John, 1305 E. Cedar St., Lansing 4, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bee-Line Co., Box 569, Davenport, Iowa.  
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif. (Magnetic wheel.)  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Duby Co., John F., 744 Gallivan Blvd., Dorchester 22, Mass.  
Hunter Engrg. Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.  
Kent-Moore Organization, 1501 S. Jackson St., Jackson, Mich.  
Krumm Mfg. Co., T. F., 5150 Lewis Ave., Toledo 12, Ohio.  
Kwik-Ezee, Inc., 54 Brooklyn Ave., Westbury, N. Y.  
Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.  
Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo.  
Meco Products, Creta, Neb.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

Wilco Products, Inc., 595 Valley St., Orange, N. J.  
Zoerman-Clark Mfg. Co., Jackson, Mich.

### GAGES, Wheel & Axle

Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.  
Wilco Products, Inc., 595 Valley St., Orange, N. J.  
Zoerman-Clark Mfg. Co., Jackson, Mich.

### GAS, Acetylene

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.  
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. (Cylinders.)  
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)  
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

### GAS, Hydrogen

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.  
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)  
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

GAS, LP, See Fuels, Engine

### GAS, Oxygen

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.  
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.  
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa. (Cylinders.)  
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. (Cylinders.)

### GASKETS, Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.  
Anchor Packing Co., 401 N. Broad St., Philadelphia 3, Pa.  
Armstrong Cork Co., Industrial Div., Lancaster, Pa.  
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.  
Beaverite Products, Inc., Beaver Falls, N. Y.  
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.  
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.  
Cleveland Gasket & Mfg. Co., 1610 W. 118th St., Cleveland 2, Ohio.  
Consolidated Packing & Supply Co., 37-39 Murray St., New York 7, N. Y.  
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.  
Darcoid Co., 145 Sixth Ave., New York 13, N. Y.  
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.  
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.  
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Chicago 80, Ill.  
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.  
Garlock Packing Co., 402 Main St., Palmyra, N. Y.  
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.  
Greene, Tweed & Co., North Wales, Pa.  
Johns-Manville, 22 E. 40th St., New York 16, N. Y.  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia, Pa.  
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.

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## NOW—a truck governor that regulates road speed—not engine speed

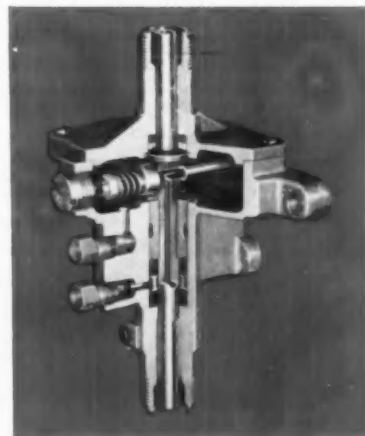
For the first time, truck fleet operators can get accurate, predetermined economy results with all trucks by having all trucks operate at road speeds which have proven most economical. The new Holley roadspeed governor is driven relative to rear wheel speed instead of relative to engine speed. It can easily be calibrated for any truck gear ratio and has been successfully tested over thousands of miles of road conditions.

The Holley roadspeed governor can be used in conjunction with the engine speed governor. Thus, if the vehicle is running in one of the lower gears and the engine reaches its governed speed

before reaching the predetermined mile per hour setting, the engine speed governor controls. In the event that road speed is reached prior to the engine rpm maximum setting, as in high gear, the roadspeed governor controls.

The roadspeed governor offers fleet operators a complete governing system designed to allow maximum horsepower under extreme load conditions and yet providing pinpoint control of road speed for maximum economy.

For more information on the Holley roadspeed governor, simply send a request on your letterhead.



*The new Holley road speed governor, engineered to regulate actual road speed, is designed to eliminate mechanical trouble and prevent malfunctioning.*

*For more than half-a-century  
original equipment manufacturers  
for the automotive industry.*

**HOLLEY**  
*Carburetor Co.*

T-8

11955 E. NINE MILE ROAD • WARREN, MICHIGAN

## gaskets to gears

CCJ's Product Directory

### GASKETS—continued

Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.  
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Blvd., Norfolk 5, Va.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Raybestos-Manhattan Inc., Packing Div., 61 Willet St., Passaic, N. J.  
Rhopac Inc., 3425 Cleveland St., Skokie, Ill.  
Rogers Corp., Goodyear, Conn.  
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.  
Vellumoid Co., 54 Rockdale St., Worcester 6, Mass. (Wire woven.)  
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.  
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

### GASKETS, Copper-Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.  
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Chicago 80, Ill.  
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.  
Gasket Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.  
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.  
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.  
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.  
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.  
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

### GASKETS, Cork

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.  
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.  
Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Composition.)  
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.  
Automotive Products Div., Crotty Corp., 35 E. Chicago Ave., Quincy, Mich.  
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.  
Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.  
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.  
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.  
Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.  
Crang Co., J. M., 2671 Main St., Buffalo 14, N. Y.  
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.  
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Chicago 80, Ill.  
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.  
Garlock Packing Co., 402 Main St., Palmyra, N. Y.  
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.  
General Cork Co., 1155 Manhattan Ave., Brooklyn 22, N. Y.  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.  
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.  
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.  
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.  
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Rd., Norfolk 5, Va.  
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J.  
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.  
Rhopac Inc., 3425 Cleveland St., Skokie, Ill.  
Sutherland Leather & Felt Co., 743 Baubien St., Detroit 26, Mich.  
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.  
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.  
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

### GASKETS, Fibrous and Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.  
Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.  
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.  
Armstrong Cork Co., Industrial Div., Lancaster, Pa.  
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.  
Automotive Products Div., Crotty Corp., 35 E. Chicago Ave., Quincy, Mich.  
Automotive Research & Mfg. Co., Re F. D. #2, Pomfret Center, Conn.  
Beaverite Products, Inc., Beaver Falls, N. Y.  
Brandywine Fibre Products Co., 15th & Poplar Sts., Wilmington, Del.  
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.  
Chambers Gasket & Mfg. Co., 4701 W. Rice St., Chicago 51, Ill.  
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.  
Consolidated Packing & Supply Co., 37-39 Murray St., N. Y. 7, N. Y.  
Continental-Diamond Fibre Corp., Newark 10, Del.  
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.  
Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.  
Crang Co., J. M., 2671 Main St., Buffalo 14, N. Y.  
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.  
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill.  
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Chicago 80, Ill.  
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.  
Garlock Packing Co., 402 Main St., Palmyra, N. Y.  
Gasket Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.  
Johns-Manville, 22 E. 40th St., New York 16, N. Y.  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.  
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.  
Lateral Fibre Industries, Inc., Beaver Falls, N. Y.  
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.  
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.  
Mitchell & Smith Div., Sheller Mfg. Corp., 8900 Hampton Rd., Norfolk 5, Va.  
Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.  
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.  
Presstite-Keystone Engrg. Products Co., 3900 Chouteau St., St. Louis 10, Mo.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Rhopac Inc., 3425 Cleveland St., Skokie, Ill.  
Rogers Corp., Goodyear, Conn.  
Taylor Fibre Co., Norristown, Pa.  
United Packing & Gasket Engr. Corp., 5111 Ogden Ave., Cicero 50, Ill.  
Vellumoid Co., 54 Rockdale St., Worcester, Mass.  
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.  
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.  
Wilmington Fibre Specialty Co., Newcastle, Del.  
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.  
Wolverine Fabricating & Mfg. Co., 2638 Princess Ave., Inkster, Mich.

### GASKET COMPOUNDS

Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass.  
Carborundum Company, Niagara Falls, N. Y.  
Dewey & Almy Chemical Co., 62 Whittemore Ave., Cambridge 40, Mass.  
Duroid Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.  
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa.

Flexrock Co., Packing Div., 36th & Filbert Sts., Philadelphia 4, Pa.  
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
P. O. B. Mfg. Co., 3215 Colerain Ave., Cincinnati, Ohio.  
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. (In tubes.)  
Permatex Co., 1702 Ave. Y, Brooklyn 35, N. Y.  
Stanley Co., John T., 642 W. 30th St., New York, N. Y.  
Warehouse Distributors Co., 3810 N. 19th St., Philadelphia 40, Pa.

GASOLINE, See Fuels, Engine

GASOLINE FILTERS, See Filters, Gasoline

### GATES, Truck, Folding

Ace Iron Works, 510 W. Pershing Rd., Chicago 9, Ill. (Steel, also chain.)  
Atlas Fence Co., 3644 Richmond St., Philadelphia 34, Pa.  
Bustin Steel Products, Inc., 110 E. 130th St., Dover, N. J.  
Gate Co. of America, Detroit, Mich.  
Logan Co., Cabell St., Louisville 6, Ky.  
Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
Republic Steel Corp., Bolt & Chain Div., 1970 Charter Rd., Cleveland 13, Ohio. (Chain.)  
Roll-O-Matic Chain Co., 200 Wyandotte St., Kansas City 6, W. Mo. (Chain.)  
Zehr Products Co., 2130 E. Hazzard St., Philadelphia 25, Pa. (Folding wire.)

GEAR PULLERS, See Pullers, Bearing, Gear and Wheel

### GEARS, Flywheel Ring

Automotive Gear Div., Eaton Mfg. Co., S. Eighth & O Sts., Richmond, Ind.  
Detroit Bevel Gear Co., 8139 Jos. Campau Ave., Detroit 11, Mich.  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Perfection Gear Co., 162nd St. & Vincennes Ave., Harvey, Ill.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Springfield Mfg. Co., Bechtle Ave. & Columbia St., Springfield, Ohio.  
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

### GEARS, Landing (Trailer)

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.  
Binkley Mfg. Co., Warrenton, Mo.  
Dayton Steel Foundry Co., P. O. Box 1022, Dayton 2, Ohio.  
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.  
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.  
Holland Hitch Co., 430 W. 18th St., Holland, Mich.  
Homan & Co., Inc., 511 Reading Rd., Reading, Cincinnati 15, Ohio.

### GEARS, Steering, Manual

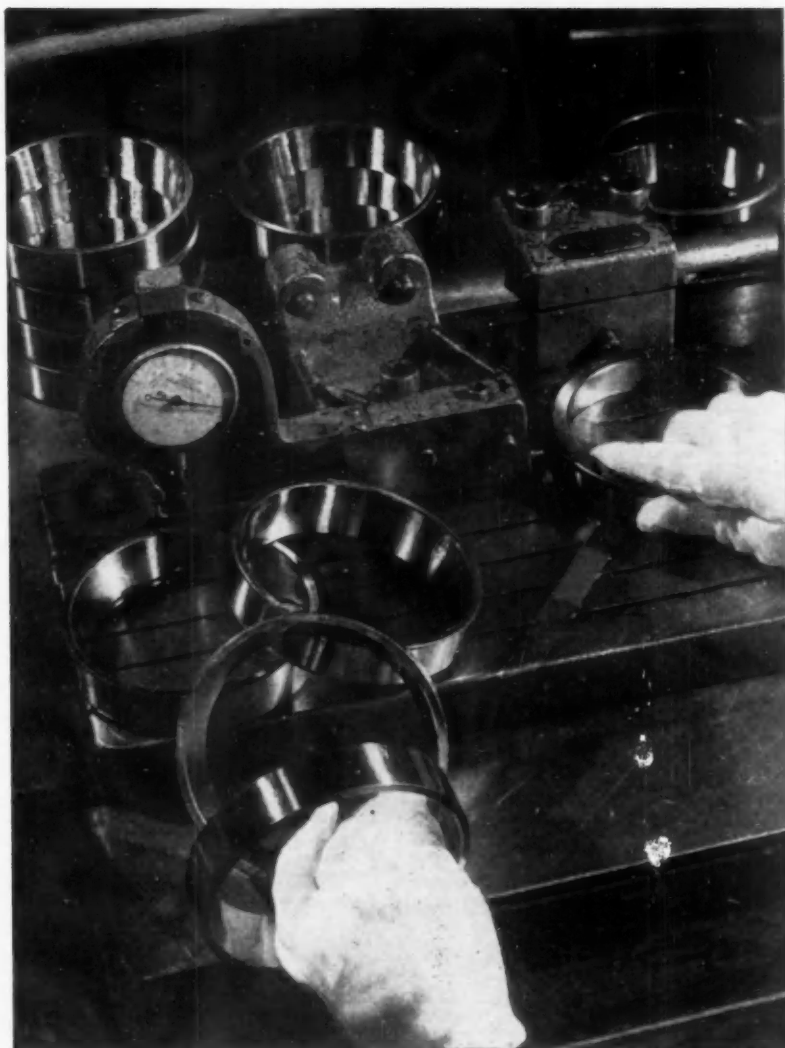
Gemmer Mfg. Co., Div. of Ross Gear & Tool Co., 6400 Mt. Elliott Ave., Detroit 11, Mich.  
Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.  
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.

GEARS, STEERING POWER, See Steering, Power

### GEARS, Timing, Metallic and Non-Metallic

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, L. I., N. Y. (Aluminum with bonded in steel hubs, semi-finished.)  
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.  
Cloyer Gear & Products, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.

# They have to pass the toughest tests before we give 'em their driver's license



*(Another reason why  
TIMKEN® bearings are first choice  
with truck manufacturers)*

**T**HE precision instrument pictured here checks the outside diameter of a Timken® bearing cup to make sure it meets specifications. If it doesn't, it gets no "driver's license" for your truck. This exacting test is one of the many inspections that help assure that *every* Timken tapered roller bearing has the *same* high quality. Quality that means long bearing life, better and more economical operation for your truck.

Only Timken bearings give you *all* these advantages: 1) advanced design; 2) precision manufacture; 3) rigidly controlled quality; 4) special analysis Timken fine alloy steel—we're America's only bearing manufacturer that makes its own steel. That's why Timken bearings are first choice with men who know trucks best—the manufacturers.

Why not take your cue from engineers who design your trucks. Specify Timken tapered roller bearings for replacement. Look for the trade-mark "Timken" on every bearing. And for useful service information, send for your free copy of "Timken Tapered Roller Bearings—Their Care and Maintenance". Just write to: Dept. JCC-11, The Timken Roller Bearing Company, Canton 6, Ohio. Canadian plant: St. Thomas, Ontario. Cable address: "TIMROSCO."

## SINCE THEY'RE BEST WHEN THE TRUCK IS NEW, THEY'RE BEST FOR REPLACEMENT, TOO!



See the next Timken Televent hour, "The Innocent Years" over NBC-TV, Thursday night, November 21st.

# TIMKEN

TRADE-MARK REG. U. S. PAT. OFF.

*TAPERED ROLLER BEARINGS ROLL THE LOAD*

# gears to grinders

CCJ's Product Directory

## GEARS—continued

Continental-Diamond Fibre Corp., Newark 10, Del.  
D & B Mfg. Co., 2312 S. Indiana Ave., Chicago, Ill.  
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.  
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Elgin Machine Works, 412 N. State St., Elgin, Ill.  
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Metallic.)  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Timing Gears Corp., 2801 Fulton St., Chicago 12, Ill.  
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif.  
Westinghouse Electric Corp., Micarta Div., 3 Gateway Center, Pittsburgh 30, Pa. (Non-metallic.)  
Wolverine Gear & Parts Co., Osseo, Mich.

## GEARS, Transmission

Automotive Gear Div. of Eaton Mfg. Co., S. 8th & O Sts., Richmond, Ind.  
Brad Foote Gear Works Inc., 1309 S. Cicero Ave., Cicero 50, Ill.  
Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.  
Cotta Transmission Co., 2340 11th St., Rockford, Ill.  
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich. (Truck and tractor.)  
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.  
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 10, Ill.  
New Process Gear Co., 500 Plum St., Syracuse, N. Y. (Truck and tractor.)  
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

## GEARS and PINIONS, Rear Axle

(For complete units—See Differentials)

Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson, Mich.  
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.  
Fairfield Mfg. Co., State Rd. #52, Lafayette, Ind.  
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.  
New Process Gear Co., 500 Plum St., Syracuse, N. Y.  
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

## GEARS, Worm Drive

Aro Equipment Corp., Cleveland Drive, 2040 E. 77th St., Cleveland 3, Ohio.  
Batah Machine Tool Co., 156 Wason Ave., Springfield, Mass.

Beaver Gear Works, Inc., 1025 Parmele St., Rockford, Ill.  
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.  
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.  
Cleveland Worm & Gear Co., 3274 E. 80th St., Cleveland 4, Ohio.  
Fairfield Mfg. Co., State Rd. No. 52, Lafayette, Ind.  
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.  
Morse Chain Co., Ithaca, N. Y.  
Ohio Forge & Machine Corp., 3010 Woodhill Rd., Cleveland 4, Ohio.  
X. L. Gears, Inc., 69 Prospect St., Newark 5 N. J.

## GENERATORS

American Bosch Div. American Bosch Arms Corp., 2664 Main St., Springfield 7, Mass.  
American Generator & Armature Co., 6100 W. Grand Ave., Chicago 39, Ill. (Battery charging.)  
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)  
Delco-Remy, Div. General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
General Armature & Mfg. Co., Box 870, Mill Hall, Pa.  
Kurland Combinator, Denver 3, Colo.  
Lane & Beane, 2934 Arunah Ave., Baltimore 16, Md. (Auxiliary.)  
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio. (Bus and truck.)  
United Motor Service, General Motors Bldg., Detroit 2, Mich.

## GENERATORS SETS, Portable

Duplex Truck Co., Lansing, Mich.

## GLASS, Safety

American Window Glass Co., 1600 Farmers Bank Bldg., Pittsburgh 22, Pa.  
Auto Glass Mfg. Co., 8701 Brinnell Ave., Detroit 13, Mich.  
Glass Products, Inc., 9 W. Park Way, Pittsburgh 12, Pa.  
Globe Auto Glass Co., 2501 S. Dearborn St., Chicago 16, Ill.  
Libbey-Owens-Ford Glass Co., 608 Madison Ave., Toledo 3, Ohio.  
Pittsburgh Plate Glass Co., 1 Gateway Center, Pittsburgh 22, Pa.  
Protecto Safety Glass Co., 82-04 Cooper Ave., Brooklyn 27, N. Y. (Bullet-resistant.)  
Safetee Glass Co., 4717 Stenton Ave., Philadelphia 44, Pa. (Also bullet resisting.)  
Shatterproof Glass Co., 4815 Cabot Ave., Detroit 10, Mich.

## GOVERNORS, Engine

Electric Auto-Lite Co., Toledo 1, Ohio.  
Holley Carburetor Co., 11955 E. Nine Mile Rd., Van Dyke, Mich.  
Hoof Product Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Velocity & mechanical.)  
King-Seely Corp., 315 S. Fifth St., Ann Arbor, Mich.  
Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Combination governor and distributor.)  
Minnesota Automotive Inc., 1101 N. Front St., Mankato, Minn.  
Monarch Governor Co., 2800 Tyler Rd., Willow Run, Mich.  
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.  
Pierce Governor Co., 1625 Ohio Ave., Anderson, Ind.  
Safety Speed Control Co., 7800 N. E. Fourth Court, Miami 35, Fla.  
Woodward Governor Co., 5001 N. 2nd St., Rockford, Ill. (Truck & bus.)  
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Combination carburetor and governor.)

## GRADERS (Construction and Off-Highway)

Allis-Chalmers Manufacturing Co., Box 512, Milwaukee 1, Wis.  
Austin Western Works, Construction Equipment Div., Baldwin-Lima-Hamilton Corp., 601 Farnsworth Ave., Aurora, Ill.

Caterpillar Tractor Co., Peoria, Zone 8, Ill.  
Huber-Warco Co., 202 N. Greenwood St., Marion, Ohio.  
LeTourneau-Westinghouse Co., Peoria, Ill.  
Pettibone Mulliken Corp., 4700 W. Division St., Chicago 51, Ill.  
Preco Inc., 6300 E. Slauson Ave., Los Angeles 22, Calif.

## GRAPHITE, Lubricating

A P Parts Corp., A P Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.  
American Grease Stick Co., Muskegon, Mich.  
Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich.  
Boyle-Midway Inc., 22 E. 40th St., New York, N. Y.  
Bush & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill.  
Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J.  
Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohio.  
M-M-A Inc., Coho Bldg., Lancaster, Pa.  
Panef Mfg. Co., 102 E. Walnut St., Milwaukee 1, Wis.  
Superior Graphite Co., 1531 First National Bank Bldg., Chicago 3, Ill.  
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich.

GREASE, CHASSIS, See Oils and Lubricants  
GREASE GUNS, HAND, See Lubricators, Hand  
GREASE GUNS, PUMPS, CABINETS and BUCKETS, HIGH PRESSURE, See Lubricators, Portable, High Pressure  
GREASE RETAINERS, See Retainers, Oil and Grease

## GRILLES, Radiator

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.  
Aluminum Goods Mfg. Co., Manitowoc, Wis.  
Automotive Grille Co., 2111 S. Michigan St., Chicago, Ill.  
Cutler Metal Products Co., 1025 Line St., Camden, N. J.  
Detroit Grille Mfg. Co., 258 E. Verner Highway, Detroit 1, Mich.  
Doehler Die-Casting Co., 386 Fourth Ave., New York, N. Y.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Excel Corp., 1120 N. Main St., Elkhart, Ind. (For White trucks.)  
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.  
Saginaw Industries Co., 2119 S. Jefferson Ave., Saginaw, Mich. (For Ford and Chevrolet.)  
Zenite Metal Corp., 201 N. West St., Indianapolis 7, Ind.

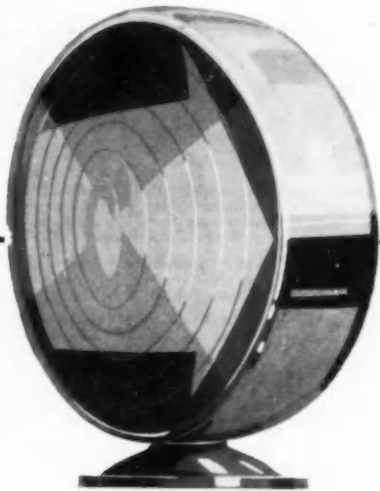
## GRILLES, Rolling, for Doorways

Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio.

## GRINDERS, Bench

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.  
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Blount Co., J. G., 10 Woodland St., Everett 49, Mass.  
Bradford Machine Tool Co., 722 Porter St., Lansing 5, Mich.  
Cincinnati Electrical Tool Co., 2599 Madison Rd., Cincinnati 8, Ohio.  
Dumore Co., 1300 17th St., Racine, Wis.  
Hammond Machinery Builders, Inc., 1621 Douglas Ave., Kalamazoo 54, Mich.  
Hisey-Wolf Machine Co., Div. Cincinnati Electrical Tool Co., Galvin & Mt. Hope Aves., Cincinnati 4, Ohio.  
Lima Electric Motor Co., Findlay Rd., Lima, Ohio.  
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.  
Millers Falls Co., Greenfield, Mass.  
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.  
Portable Electric Tools, Inc., 320 W. 83 St., Chicago 20, Ill.





# association directory

## NATIONAL ASSOCIATIONS

**AIR COMPRESSOR RESEARCH COUNCIL**, 27 E. Monroe St., Chicago 3, H. P. Dolan, Exec. Dir.

**AIRLINE GROUND TRANSPORTATION ASSN.**, 501 Madison Ave., New York 22, Herbert J. DeGraff, Man. Dir.

**AMERICAN ASSN. OF STATE HIGHWAY OFFICIALS** (1914), 917 National Press Bldg., Washington 4, D. C., A. E. Johnson, Executive Sec.

**AMERICAN AUTOMOBILE ASSN.** (1902), AAA Building, 1712 G St., N.W., Washington 6, D. C., R. E. Singer, Exec. V. P.

**AMERICAN GAS ASSN.**, 420 Lexington Ave., New York 17, J. Stanford Setchell, Sec., Operating Section.

**AMERICAN MATERIAL HANDLING SOCIETY**, 638 Phillips Ave., Toledo 12, Ohio, Arthur E. Fryer, Adm. Sec.

**AMERICAN PETROLEUM INSTITUTE** (1919), 50 West 60th St., New York 20, Frank M. Porter, President; James E. Moss, Dir. Div. of Transportation, 1625 K St., N.W., Washington 6, D. C.

**AMERICAN PUBLIC WORKS ASSN.**, 1313 E. 60th St., Chicago 37.

**AMERICAN ROAD BUILDERS' ASSN.** (1902), World Center Bldg., Washington 6, D. C., Maj. Gen. Louis W. Prentiss, (U. S. A. Ret.) Exec. V. P.

**AMERICAN SOCIETY OF BODY ENGINEERS, Inc.** (1945), 100 Farnsworth Ave., Detroit 2, Eric Lange, Sec.

**AMERICAN SOCIETY OF LUBRICATION ENGINEERS**, 84 E. Randolph St., Chicago 1, Wm. P. Youngclaus, Jr., Adm. Sec.

**AMERICAN SOCIETY OF REFRIGERATING ENGINEERS** (1904), 234 Fifth Ave., New York 1, R. C. Cross, Exec. Sec.

**AMERICAN SOCIETY OF SAFETY ENGINEERS**, 425 N. Michigan Ave., Chicago 11, J. B. Johnson, Sec.

**AMERICAN TAXICAB ASSN.** (1942), 4415 N. California Ave., Chicago 25, M. H. Smith, Exec. Sec.

**AMERICAN TRANSIT ASSN.** (1882), 292 Madison Ave., New York 17.

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Gen'l Sec.—Arthur W. Baker.  
Administrative Asst. — Van Court Lucas.  
Asst. to Exec. V. P. & Gen. Sec.—Kenneth L. McKee.  
Dept. of Research—Walter S. Rainville, Jr., Dir.  
Public Information—William U. Taylor, Dir.  
News Editor, Passenger Transport—Robert G. Skinner.  
Statistical Dept.—E. B. McCaul, Dir.  
Librarian—Miss Julia Kelly.

**AMERICAN TRUCKING ASSNS. INC.** (1933), 1424 Sixteenth St., N.W., Washington 6, D. C.

### STAFF EXECUTIVES:

Managing Director—John V. Lawrence.  
General Manager—Ray G. Atherton.  
Dir. Public Relations & Asst. to Pres.—Walter W. Belson.  
Asst. to Gen. Mgr.—H. Scott Byerly.  
General Counsel—Col. James F. Pinkney.  
Comptroller—George H. Minnick.  
Dir. Dept. of Research—E. V. Kiley.  
Dir. Traffic Dept.—Frederick G. Freund.  
Dir. Dept. of Safety—G. D. Sontheimer.  
Dir. Dept. of Industrial Relations—Benjamin R. Miller.  
Dir. Law Dept.—Peter T. Beardsley.  
Dir. Field Service Dept.—E. D. Hicks, Jr.  
Editor, Transport Topics—Morris H. Glazier.  
**ATA Sections:**  
Automotive Engineering Section — Lewis C. Kibbee, Chief.  
Highway Engineering Section—H. A. (Mike) Flanakin, Chief.  
Radio and Communications Section—William Elder, Chief.  
Freight Claim Section—John M. Miller, Sec.  
Special Services Section—E. M. Welliver, Chief.  
Government Traffic Section — W. J. McCloskey, Chief.

### ATA CONFERENCES:

Regular Route Common Carrier—Robert J. McBride, Man. Dir.  
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Thomas F. Robertson, Man. Dir.  
Local Cartage National Conference—Frank H. Floyd, Genl. Mgr.  
Movers Conference of America—Wm. J. Burns, Genl. Mgr.  
National Tank Truck Carriers, Inc.—C. Austin Sutherland, Managing Director.  
Contract Carriers Conference—Mrs. V. H. Kennedy, Exec. Sec.  
Automobile Transporters Conference—W. A. Bresnahan, Acting Sec.  
Film Carriers Conference—E. D. Hicks, Jr., Acting Sec.  
Oilfield Haulers Conference—James R. Boyd, Sec. (Austin, Texas.)  
Private Carriers Conference—Vincent L. O'Donnell, Exec. Sec.  
Munitions Carriers Conference—Gene T. West, Man. Dir.  
(See also listings under State Truck Associations)

**AMERICAN WAREHOUSEMENS ASSN.**, Tower Bldg., N.W., Washington 5, D. C., William Dalton, Gen. Sec.

**ANTI-FRICTION BEARING MANUFACTURERS ASSN.**, 60 E. 42nd St., New York 17, H. O. Smith, Sec.-Mgr.

**ASPHALT INSTITUTE**, Asphalt Bldg., University of Maryland, College Park, Md., J. E. Buchanan, Pres.

**ASSOCIATED EQUIPMENT DISTRIBUTORS** 30 E. Cedar St., Chicago 11, P. D. Herman, Exec. Sec.

**ASSOCIATED GENERAL CONTRACTORS OF AMERICA**, Munsey Bldg., Washington 4, D. C.  
**STAFF EXECUTIVES:**  
James D. Marshall, Exec. Dir.  
William E. Dunn, Asst. Exec. Dir.  
J. M. Sprouse, Mgr., Highway Div.

**ASSOCIATED TRAFFIC CLUBS OF AMERICA**, 110 S. Dearborn St., Chicago 3, Raymond P. DeGroot, Sec.

**ASSOCIATION OF HIGHWAY STEEL TRANSPORTERS**, Society for Savings Bldg., Cleveland 14, Ohio, J. J. Kuhner, Sec.  
(TURN TO NEXT PAGE, PLEASE)

# association directory

## NATIONAL ASSOCIATIONS —continued

**AUTOMOBILE MANUFACTURERS ASSN.** (1918), 320 New Center Bldg., Detroit 2.  
**STAFF EXECUTIVES:**  
Managing Dir.—Harry A. Williams.  
Motor Truck Div., Motor Coach Div., and Field Services Dept.—Karl M. Richards, Mgr.  
Motor Truck Technical Sub-committee —John J. Cummings, Sec.  
Public Relations Dept.—(Appointment Pending) Dir.  
Statistical Dept.—O. P. Pearson, Mgr.  
Patent Dept.—Wm. L. Scherer, Mgr.  
Traffic Dept.—Carman E. Brown, Mgr.  
Engineering & Technical Dept.—Wm. F. Sherman, Mgr.  
Washington Office—330 Transportation Bldg., Harlan V. Hadley, Mgr.; John

H. King, Motor Truck Div. Rep.  
New York Office—366 Madison Ave., Frank J. Mahoney, Mgr. Ocean Rate Dept.

**AUTOMOBILE SAFETY BELT INSTITUTE**, 111 W. Washington St., Chicago 2, Ill., R. L. Ekstrand, Exec. Sec.

**AUTOMOTIVE ELECTRIC ASSN.**, 16223 Meyers, Detroit 35, J. H. Reed, Exec. Sec.

**AUTOMOTIVE ENGINE REBUILDERS ASSN.**, 901-903 Roosevelt Bldg., Indianapolis 4, Ind., R. G. Patterson, Exec. V. P.

**AUTOMOTIVE EXHAUST RESEARCH INSTITUTE**, Keith Bldg., Cleveland 15, Ohio, Roy L. Burton, Sec.

**AUTOMOTIVE PARTS MANUFACTURERS ASSN.**, 16219 Meyers, Detroit 35, Frank Rising, Gen. Mgr.

**AUTOMOTIVE PARTS REBUILDERS ASSN.**, 220 S. State St., Chicago 4, E. J. O'Sullivan, Exec. Sec.

**AUTOMOTIVE SAFETY FOUNDATION** (1937), 200 Ring Bldg., 1200 18th St., N.W., Washington 6, D. C., J. O. Mattson, Pres.; Pyke Johnson, Consultant.

**AUTOMOTIVE TRADE ASSN. MANAGERS**, 175 W. Bowery St., Akron 8, Ohio, Frank R. Broadway, Sec.

**CAR AND TRUCK RENTING AND LEASING ASSN.**, 209 S. LaSalle St., Chicago 4, Ill., Howard R. Smith, Exec. Sec.

**CONSTRUCTION INDUSTRY MANUFACTURERS ASSN.**, 135 S. LaSalle St., Chicago 3, H. F. Hess, Exec. V. P.

**DIESEL ENGINE MANUFACTURERS ASSN.**, 1 N. LaSalle St., Chicago 2, Harvey T. Hill, Exec. Dir.

**FREIGHT FORWARDERS INSTITUTE**, 1111 E. St., N.W., Washington 4, D. C., Giles Morrow, Pres.

**GENERAL CONTRACTORS ASSN.**, 341 Madison Ave., New York 17, Edward L. Stanton, Gen. Mgr.

## ASSOCIATED EQUIPMENT DISTRIBUTORS LOCAL GROUPS

**ALABAMA EQUIPMENT DISTRIBUTORS ASSN.**, 215 Bell Bldg., Montgomery 4, E. N. Rogers, Sec.

**ARIZONA EQUIPMENT DISTRIBUTORS**, 820 N. 17th Ave., Phoenix, R. B. George, Sec.

**ARKANSAS ASSN. OF EQUIPMENT DISTRIBUTORS**, 715 W. Second St., Little Rock, Ray Metzger, Sec.

**CONSTRUCTION EQUIPMENT DISTRIBUTORS ASSN. OF N. CAL.**, 255 Tenth St., San Francisco 3, Oscar W. Brandt, Sec.

**EQUIPMENT DISTRIBUTORS & MANUFACTURERS OF S. CAL.**, 5046 E. Washington Blvd., Los Angeles 22, John L. Fremon, Sec.

**COLORADO EQUIPMENT DISTRIBUTORS**, 595 S. Grant St., Denver, Jack Wood, Sec.

**MIAMI EQUIPMENT DISTRIBUTORS ASSN.**, 2405 N. W. Second Ave., Miami, L. P. Ireland, Jr., Sec.-Treas.

**GEORGIA EQUIPMENT DISTRIBUTORS ASSN.**, P. O. Box 1232, Atlanta, Paul Andrews, Sec.

**IDAHO EQUIPMENT DEALERS ASSN.**, P. O. Box 607, Boise, R. A. Cartwright, Sec.-Treas.

**ILLINOIS CONSTRUCTION EQUIPMENT DISTRIBUTORS ASSN.**, 111 W. Washington St., Chicago 2, R. L. Ekstrand, Exec.-Sec.

**EQUIPMENT DISTRIBUTORS OF INDIANA, INC.**, 101 E. 14th St., Indianapolis, Wm. Howard, Sec.

**IOWA EQUIPMENT DISTRIBUTORS ASSN.**, E. Third & Vine Sts., Des Moines, C. J. Dukehart, Sec.

**EQUIPMENT DISTRIBUTORS OF KENTUCKY**, Capitol Hotel, Frankfort, Wilson Harper, Sec.

**LOUISIANA EQUIPMENT ENGINEERS**, 1405 S. Broad St., New Orleans, H. S. Finke, Sec.-Treas.

**EQUIPMENT DISTRIBUTORS ASSN.**, 2323 Maryland Ave., Baltimore 18, John P. Trimmer, Sec.

**NEW ENGLAND EQUIPMENT DIS-**

**TRIBUTORS ASSN.**, P. O. Box 255, Lexington, Mass., H. S. Swartz, Sec.

**MICHIGAN CONSTRUCTION EQUIPMENT DEALERS ASSN.**, 642 Beaubien, Detroit, R. C. Mertz, Sec.

**EQUIPMENT DISTRIBUTORS ASSN.**, 171 27th Ave., S. E., Minneapolis, Minn., George Rapson, Sec.

**ASSOC. EQUIPMENT DISTRIBUTORS OF GREATER KANSAS CITY**, 602 Commerce Bldg., Kansas City, Roy L. Vickrey, Sec.

**CONSTRUCTION EQUIPMENT DISTRIBUTORS ASSN. OF ST. LOUIS**, 425 DeBailviere Ave., St. Louis 12, R. O. Schaefer, Jr., Sec.-Treas.

**MONTANA EQUIPMENT DISTRIBUTORS**, 1345 W. Broadway, Missoula, W. H. McIntyre, Sec.

**EQUIPMENT DISTRIBUTORS OF NEBRASKA**, 200 Merchants Nat'l Bank Bldg., Omaha, W. H. Marley, Sec.-Treas.

**NEW JERSEY EQUIPMENT DISTRIBUTORS ASSN.**, 620 Ramsey Ave., Hillside 5, H. J. Zoubek, Sec.

**ALBUQUERQUE EQUIPMENT DISTRIBUTORS**, P. O. Box 456, Albuquerque, N. M., John W. Schoen, Sec.

**BUFFALO EQUIPMENT DISTRIBUTORS**, 2260 Fillmore Ave., P. O. Box 2074, Buffalo 5, N. Y., George W. Gleasner, Sec.

**EASTERN N. Y. EQUIPMENT DISTRIBUTORS ASSN.**, Stop 12, Albany-Schenectady Rd., Albany 5, N. Y., George Lokoy, Sec.

**NEVADA EQUIPMENT DEALERS ASSN.**, 1510 West 4th St., Reno, Frank Kern, Sec.

**NORTH DAKOTA INDUSTRIAL EQUIPMENT DISTRIBUTORS, INC.**, Box 563, Fargo, N. D.

**OHIO EQUIPMENT DISTRIBUTORS ASSN.**, P. O. Box 61, Dublin, Ohio, Emmett H. Karraer, Exec. Sec.

**SOUTHERN OHIO EQUIPMENT DISTRIBUTORS ASSN.**, 2150 Langdon Farm Rd., Cincinnati, Ohio, Thomas F. Russell, Sec.-Treas.

**ASSOC. EQUIPMENT DISTRIBUTORS OF OKLAHOMA**, Box 677, Oklahoma City, Jack O. West, Sec.

**PORTLAND MACHINERY DEALERS ASSN.**, 1405 S. E. 8th Ave., Portland 14, Ore., Edward L. Kropp, Jr., Sec.

**CENTRAL PENNSYLVANIA EQUIPMENT DISTRIBUTORS**, c/o William Brubaker, Stewart Equipment Co., Inc., 2700 Paxton St., Harrisburg, Pa.

**PHILADELPHIA-DELAWARE VALLEY A.E.D.**, P. O. Box 608, Clifton Heights, Pa., J. D. Bardon, Sec.

**PITTSBURGH EQUIPMENT DISTRIBUTORS**, P. O. Box 43, Groveton, Allegheny County, Pa., L. T. Kern, Sec.

**EAST TENNESSEE EQUIPMENT DISTRIBUTORS ASSN.**, P. O. Box 10061, Knoxville 19, Wm. Crenshaw, Sec.

**NASHVILLE A.E.D. GROUP**, 800 6th Ave., N., Nashville, Tenn., W. C. McDaniel, Sec.-Treas.

**DALLAS CHAPTER, A.E.D.**, 1221 S. Lamar, Dallas, Texas, Jack Bartholow, Sec.

**HOUSTON EQUIPMENT DISTRIBUTORS**, 1506 Maury St., Houston 22, Texas, D. B. Jeffries, Sec.

**A.E.D. of SAN ANTONIO**, Box 10308 San Antonio, Texas, Chas. T. Vesella, Sec.-Treas.

**A.E.D. of UTAH**, Box 1646, Salt Lake City 10, Utah, H. A. Christiansen, Sec.

**VIRGINIA EQUIPMENT DISTRIBUTORS**, 2509 N. Lombardy St., P. O. Box 706, Richmond 6, Theodore Shaffer, Jr., Sec.

**A.E.D. of SEATTLE**, 5055 Fourth Ave., S., Seattle 4, Wash., M. R. Aitken, Sec.-Treas.

**SPOKANE MACHINERY DISTRIBUTORS ASSN.**, 3323 Trent St., Spokane, Wash., Harry H. Ferris, Sec.-Treas.

**WEST VIRGINIA EQUIPMENT DISTRIBUTORS ASSN.**, 601-50th St., S. E., Charleston, W. Va., E. A. DeFrehn, Sec.

**WISCONSIN EQUIPMENT DISTRIBUTORS, INC.**, 327 S. 16th St., Milwaukee, Mort Hunter, Jr., Sec.-Treas.

## association directory

**HIGHWAY RESEARCH BOARD OF NATIONAL RESEARCH COUNCIL** (1920), 2101 Constitution Ave., Washington 25, D. C.; Fred Burggraf, Dir.

**INDEPENDENT ADVISORY COMMITTEE TO THE TRUCKING INDUSTRY, INC.**, 1000 Vermont Ave., N.W.,

Washington 5, D. C., Att.: Arthur D. Condon.

**INDUSTRIAL TRUCK ASSN.**, 900 F St., N.W., Washington 4, D. C., Van C. Brandt, Man. Dir.

**INSTITUTE OF TRAFFIC ENGINEERS**,

Strathcona Hall, New Haven, Conn., M. M. Todd, Exec. Sec.

**INTER-INDUSTRY HIGHWAY SAFETY COMMITTEE**, 1200 - 18th St., N.W., Washington 4, D. C., M. R. Darlington, Jr., Man. Dir.  
(TURN TO NEXT PAGE, PLEASE)

## STATE MOTOR TRUCK ASSOCIATIONS

(Affiliated with American Trucking Assns., Inc., except as noted.)

**ALABAMA TRUCKING ASSN., INC.** (1936), Bell Bldg., Montgomery, J. Douglas Harris, Gen. Mgr.

**ARIZONA MOTOR TRANSPORT ASSN.** (1939), Suite 642-43, New First Nat'l Bank Bldg., Phoenix, Ellis Wyatt, Man. Dir.

**ARKANSAS BUS & TRUCK ASSN. INC.** (1942), 600 Spring St., Little Rock, Marion G. Ward, Mgr. (Also buses.)

**\*PRIVATE TRUCK OWNERS BUREAU OF CALIF.**, 1625 Russ Bldg., San Francisco 4, Alan G. Anderson, Sec.

**\*AUTOMOTIVE COUNCIL OF LOS ANGELES, INC.**, 701 Zonal Ave., Los Angeles 33, L. L. Beardslee, Pres.

**CALIFORNIA TRUCKING ASSNS. INC.** (1955), 3301 S. Grand Ave., Los Angeles 7, Wade Sherrard, Man. Dir. (Also offices at 841 Folger Ave., Berkeley; Room 219 Hotel Senator, Sacramento; and 155 S. Van Ness, Fresno)

**COLORADO MOTOR CARRIERS ASSN.** (1939), 4060 Elati St., Denver, Ben Bezoff, Man. Dir.

**MOTOR TRANSPORT ASSN. of CONNECTICUT, INC.** (1930), 410 Asylum St., Hartford 3, John F. Maerz, Exec. V. P.

**DELAWARE MOTOR TRANSPORT ASSN.** (1939), P. O. Box 446, Dover, Fred J. Sievers, Jr., Gen. Mgr.

**DISTRICT OF COLUMBIA TRUCKING ASSN. INC.** (1934), 1424 16th St. N.W., Washington 6, D. C., John R. Scott, Exec. Sec.

**FLORIDA TRUCKING ASSN. INC.** (1934), 704 Gilmore St., Jacksonville, C. A. Gertner, Gen. Mgr.

**GEORGIA MOTOR TRUCKING ASSN. INC.** (1934), 328 Ponce De Leon Ave., N.E., Atlanta, Sims Garrett, Jr., Exec. V. P.

**IDAHO MOTOR TRANSPORT ASSN.** (1939), 203 Eastman Bldg., Boise, Kenneth Hartzler, Man. Dir.

**CENTRAL MOTOR FREIGHT ASSN. INC. of ILL.**, Suite 1111, 343 S. Dearborn St., Chicago 4, William Noorlag, Jr., Gen. Mgr.

**ILLINOIS MOTOR TRUCK OPERATORS ASSN. INC.** (1924), 30 N. LaSalle St., Chicago, Walter E. McCarron, Exec. Dir.

**INDIANA MOTOR TRUCK ASSN. INC.** (1932), 2905 N. Meridian St., Indianapolis, James Nicholas, Exec. Sec.

**\*PRIVATE TRUCK OWNERS OF INDIANA, INC.**, 1127 Central Ave., Indianapolis 2, C. W. Abraham, Sec.

**IOWA MOTOR TRUCK ASSN. INC.** (1943), 604 Capitol City Bank Bldg., Des Moines, LeRoy Crowley, Sec. Mgr.

**KANSAS MOTOR CARRIERS ASSN. INC.** (1936), 2900 S. Topeka Blvd., Topeka, J. R. Halladay, Man. Dir.

**KENTUCKY MOTOR TRANSPORT ASSN. INC.** (1924), 709-11 Republic Bldg., Louisville 2, Lew Ulrich, Man. Dir.

**LOUISIANA MOTOR TRANSPORT ASSN. INC.** (1939), 1214 Main St., Box 1326, Baton Rouge, James P. Babington, Exec. Dir.

**MAINE TRUCK OWNERS ASSN.** (1946), Rm. 313, 415 Congress St., Portland, Wm. P. Shapleigh, Exec. Sec.

**MARYLAND MOTOR TRUCK ASSN. INC.** (1935), 3000 Washington Blvd., Baltimore, Thomas E. Wideman, Gen. Mgr.

**MASSACHUSETTS MOTOR TRUCK ASSN. INC.** (1919), 262 Washington St., Boston, 8, John M. Bresnahan, Exec. V. P.

**MICHIGAN TRUCKING ASSN. INC.** (1934), 376 Fort Shelby Hotel, Detroit 26, William W. Johnston, Man. Dir.

**MINNESOTA MOTOR TRANSPORT ASSN.** (1932), 2453 University Ave., St. Paul, Oscar Z. Remsberg, Exec. V. P.

**MISSISSIPPI TRANSPORT ASSN. INC.** (1943), 504 Deposit Guarantee Bank Bldg., Box 447, Jackson, C. R. Bradley, Mgr.

**MISSOURI BUS & TRUCK ASSN.** (1937), 628 Jefferson St., Jefferson City, U. G. Lewellen, Mgr.

**MONTANA MOTOR TRANSPORT ASSN.** (1938), Box 1244, Billings, Leonard W. Eckel, Sec. Mgr.

**NEBRASKA MOTOR CARRIERS ASSN. INC.** (1924), Suite A, 500 S. 13th St., Lincoln, Paul Halpine, Sec.

**NEVADA MOTOR TRANSPORT ASSN.** (1939), 1093 S. Virginia St., Box 2169, Reno, Robert Guinn, Sec. Mgr.

**NEW HAMPSHIRE TRUCK OWNERS ASSN. INC.** (1936), Box 665, 275 Hanover St., Manchester, A. J. Staby, Sec. Mgr.

**NEW JERSEY MOTOR TRUCK ASSN. INC.** (1915), 10 Hill St., Newark 2, D. J. Crecca, Exec. Dir.

**NEW MEXICO MOTOR CARRIERS ASSN.** (1938), Box 541, Albuquerque, Leslie R. Thomas, Man. Dir.

**EMPIRE STATE HIGHWAY TRANSPORT ASSN. INC.**, 44 E. 23rd St., New York, Joseph Adelizzi, Man. Dir.

**†PRIVATE TRUCK OWNERS, SHIPPERS AND SUPPLIERS OF NEW YORK** (1957), c/o Borden Farms Product Div., 110 Hudson St., New York, T. A. Drescher, Pres.

**NORTH CAROLINA MOTOR CARRIERS ASSN. INC.** (1929), 219 W. Martin St., Raleigh, N. C., J. T. Outlaw, Exec. V. P.

**NORTH DAKOTA MOTOR CARRIERS ASSN. INC.** (1935), 110 Third St., Bla-

marck, N. D., Edwin G. Kellner, Secy. Mgr.

**OHIO TRUCKING ASSN. INC.** (1918), Hotel Deshler-Hilton, Columbus, Ohio, Ellis S. Perlman, Man. Dir.

**ASSOCIATED MOTOR CARRIERS OF OKLAHOMA, INC.** (1932), P. O. Box 983, Suite 2315, Biltmore Hotel, Oklahoma City, Okla., Fisher Muldrow, Exec. V. P.

**OREGON TRUCKING ASSNS. INC.** (1939), 1401 N.W. 19th St., Portland, Ore., Robert R. Knipe, Mgr.

**PENNSYLVANIA MOTOR TRUCK ASSN. INC.** (1928), 7th Floor, Telegraph Bldg., Harrisburg, Pa., Edward Gogolin, Gen. Mgr.

**RHODE ISLAND TRUCK OWNERS ASSN. INC.** (1931), 49 Weybosset St., Providence 3, R. L. Mrs. L. M. Daly, Secy.

**MOTOR TRANSPORTATION ASSN. OF SOUTH CAROLINA, INC.** (1933), 2425 Devine St., Columbia, S. C., William B. Love, Jr., Gen. Mgr.

**ASSOCIATED MOTOR CARRIERS, INC., OF SOUTH DAKOTA** (1937), P. O. Box 496, Sioux Falls, S. D., E. R. Nelson, Gen. Mgr.

**TENNESSEE MOTOR TRANSPORT ASSN., INC.** (1934), Hermitage Hotel Office Bldg., Nashville 3, R. Stanley Owens, Mgr.

**\*PRIVATE TRUCK OWNERS ASSN. OF TEXAS, INC.**, Box 1091, Littlefield Bldg., Austin, Carl C. Hardin, Exec. V. P.

**TEXAS MOTOR TRANSPORTATION ASSN., INC.** (1932), 406 E. 11th St., P. O. Box 61, Austin 1, James E. Taylor, Exec. Dir. (Also buses.)

**UTAH MOTOR TRANSPORT ASSN. INC.** (1932), 208 W. 8th St., S., Box 636, Salt Lake City 4, L. Darrel Welling, Mgr.

**VERMONT TRUCK & BUS ASSOCIATION, INC.** (1934), c/o Marcell's Motor Express, Box 467, Burlington, Phillip H. Marcell, Pres.

**VIRGINIA HIGHWAY USERS ASSN., INC.** (1931), Box 1397, Jefferson Hotel, Richmond 11, E. H. Williams, Jr., Exec. V. P.

**WASHINGTON MOTOR TRANSPORT ASSN., INC.** (1923), 4101 4th Ave. S., Seattle, William E. Hicks, Man. Dir.

**WEST VIRGINIA MOTOR TRUCK ASSN., INC.** (1936), 303 Duffy St., Box 5217, Charleston, Emmett J. Bush, Man. Dir.

**WISCONSIN MOTOR CARRIERS ASSN.** (1931), One W. Main St., Madison, John P. Varda, Gen. Mgr.

**WYOMING TRUCKING ASSN. INC.** (1940), 628 West Yellowstone, Casper, Walter Kingham, Man. Dir.

**\*Affiliated with Private Truck Council of America, Inc.**

† Independent.

## association directory

### NATIONAL ASSOCIATIONS —continued

**INTERNAL COMBUSTION ENGINE INSTITUTE**, 201 N. Wells St., Chicago 6, Charles G. Spice, Exec. Sec.

**LIQUEFIED PETROLEUM GAS ASSN.**, 11 S. La Salle St., Chicago 3, Howard D. White, Exec. V. P.

**MIXER MANUFACTURERS BUREAU**, Munsey Bldg., N.W., Washington 4, D. C., C. I. Mehl, Sec.

**MOTOR & EQUIPMENT MANUFACTURERS ASSN.**, 250 W. 57th St., New York 19, Albert H. Eichholz, Gen. Mgr.

**MOVERS & WAREHOUSEMEN'S ASSN. OF AMERICA**, Warner Bldg., N.W., Washington 4, D. C., Carroll F. Genovese, Exec. Sec.

**NATIONAL ASSN. OF MOTOR BUS OPERATORS** (1926), 839 17th St., N.W., Washington 6, D. C.

#### STAFF EXECUTIVES:

Arthur M. Hill, Pres.  
Secretary-Manager—A. W. Koehler.  
Asst. to Sec.-Mgr.—W. E. Longanecker.  
General Counsel—Guy Farmer.  
Dir. of Div. of Research & Statistics—Harold R. Hosea.

**NATIONAL ASSN. OF TAXICAB OWNERS**, 803 Leader Bldg., Cleveland 14, Ohio, H. I. Gwilym, Sec.

**NATIONAL AUTOMOBILE DEALERS ASSN.** (1917), 2000 K St., N.W., Washington 6, D. C., Dr. Rowland F. Kirks, Leg. Counsel.

**NATIONAL AUTOMOBILE TRANSPORTERS ASSN.** (1944), 1043 National Bank Bldg., Detroit 26, William A. Bresnahan, Gen. Mgr.

**NATIONAL BUS TRAFFIC ASSN. INC.** (1933), 506 S. Wabash Ave., Chicago. P. J. Campbell, Chairman.  
North Central Division—509 6th Ave. N., Minneapolis 5, Minn., W. A. Allen, Chairman.

South Central Division—315 Continental Ave., Dallas, Texas, L. G. Simon, Chmn.

Western Division—Pine and Battery Sta., San Francisco, Cal., Glen G. Magnuson, Chairman.

**NATIONAL CAR RENTAL SYSTEM, INC.**, 1209 Washington Ave., St. Louis 3, Mo., Walter J. Phillips, Exec. V. P.

**NATIONAL DEFENSE TRANSPORTATION ASSN.**, 1001 Connecticut Ave.,

### STATE HIGHWAY USERS CONFERENCES

**ALABAMA**: Jim Britton, Exec. Secy., Oil Men's Assn. of Ala., 620 Guaranty Savings Life Bldg., Montgomery.

**ARIZONA**: E. J. Wyatt, Secy. Mgr., Arizona Motor Transport Assn., 643 First Nat'l Bank Bldg., Phoenix.

**ARKANSAS**: John Rudisill, General Life Insurance Co., 806 W. 2nd St., Little Rock.

**CALIFORNIA**: Allan G. Anderson, Private Truck Owners Bureau of California, Russ Bldg., San Francisco.

**COLORADO**: Clarence Werthan, Pres. Rocky Mountain Motorists, Inc., 1509 Cheyenne Place, Denver 2.

**CONNECTICUT**: E. Leroy Emanuelson, Exec. Secy., Connecticut Petroleum Industries Committee, 410 Asylum St., Hartford.

**DELAWARE**: Harry Cross, Exec. Secy., Assoc. Petroleum Industries of Delaware, Parke Bldg., S. State St., P. O. Box 449, Dover.

**FLORIDA**: J. P. Gaines, Exec. V.P., Florida Motor Court Assn., Box 705, Orlando.

**GEORGIA**: Mrs. Betty Peeler, Secy., Assn. County Commissioners of Georgia, 1729 Candler Bldg., Atlanta.

**IDAHO**: R. G. Cole, Mgr., Idaho State Automobile Assn., 414 Main St., Boise.

**ILLINOIS**: James C. Gilruth, Room 1241, 30 N. LaSalle St., Chicago 2.

**INDIANA**: Leland K. Fishback, Exec. Secy., Indiana Petroleum Industries Committee, Circle Tower, Indianapolis 4.

**IOWA**: Cliff G. Gerstenberger, Sec., Iowa Retail Farm Equip't Assn., 207 Ninth St., Des Moines.

**KANSAS**: Clive R. Lane, Automobile Club of Kansas, 415-17 Topeka Blvd., Topeka.

**KENTUCKY**: Lew Ullrich, Mgr. Dir., Kentucky Motor Transport Assn., 601 Republic Bldg., Louisville.

**LOUISIANA**: Charles S. Wilkins, Mid-Continent Oil & Gas Assn., American Bank & Trust Co. Bldg., Florida St., Baton Rouge.

**MAINE**: Leroy T. Snowdon, Exec. Secy., Maine Petroleum Assn., 283 Water St., Augusta.

**MARYLAND**: J. C. Darrell, Gen. Mgr., Automobile Trade Assn. of Maryland, 1010 St. Paul St., Baltimore 2.

**MASSACHUSETTS**: Howard B. Driscoll, Exec. Secy., Massachusetts Petroleum Industries Committee, 11 Beacon St., Boston 8.

**MICHIGAN**: Gilbert Haley, Mgr., Michigan Automobile Dealers Assn., 516 Olds Tower Bldg., Lansing 8.

**MINNESOTA**: Hilding Silfverston, Minnesota Farm Bureau Federation, 420 Commerce Bldg., St. Paul 1.

**MISSISSIPPI**: Walter D. May, Exec. Secy., Mississippi Petroleum Assn., 1204 Deposit Guaranty Bank Bldg., Jackson 14.

**MISSOURI**: Warren Fuqua, Missouri Farm Bureau Federation, 208 E. Capitol, Jefferson City.

**MONTANA**: William J. Wagner, Greyhound Lines, P. O. Box 19, Billings.

**NEBRASKA**: C. Russell Lockwood, Exec. Secy., Nebraska Petroleum Industries Committee, Box 113, State House Station, Lincoln 9.

**NEVADA**: Robert F. Quinn, Mgr., Nev. Motor Transport Assn., 1093 S. Virginia St., Reno.

**NEW HAMPSHIRE**: Gerald Connolly, Mgr., AAA, New Hampshire Div. 275 Hanover St., Manchester.

**NEW JERSEY**: W. J. Gaffney, Exec. Secy., N. J. Petroleum Industries Committee, 1408 Trenton Trust Bldg., Trenton 8.

**NEW MEXICO**: Peter Brooks, Mgr., N. M. Automobile Club, 605 Yale Bldg., Box 4205, Albuquerque.

**NEW YORK**: John J. Evers, Jr., Exec. V.P., N. Y. Auto Dealers Assn., William & Beaver Sts., Albany 7.

**NORTH CAROLINA**: Mrs. Margaret Caldwell, N. C. State Grange, Box H-1, Greensboro.

**NORTH DAKOTA**: J. B. Connolly, N. D. Automobile Club, 18 8th St. South, P. O. Box 1979, Fargo.

**OHIO**: Fred Greiner, Exec. Secy., Ohio Dairy Products Assn., 5 E. Long St., Columbus.

**OKLAHOMA**: R. R. Brayton, Okla. Motor Club, Box 3778 N. W. Station, Oklahoma City.

**OREGON**: Charles M. Sanford, Associated Forest Industries of Oregon, Room 219, Oregon Bldg., Salem.

**PENNSYLVANIA**: Mrs. Jennie E. Brugnoli, Exec. Secy., Pennsylvania Bus Assn., 602 Telegraph Bldg., Harrisburg.

**RHODE ISLAND**: Joseph E. Connell, Exec. Secy., R. I. Petroleum Industries Committee, 351 Hope St., Providence 3.

**SOUTH CAROLINA**: W. B. Love, Mng. Dir., Motor Transportation Assn. of South Carolina, 2425 Devine St., Columbia.

**SOUTH DAKOTA**: E. W. Stephens, Exec. Secy., South Dakota Petroleum Industries Committee, Hengel Bldg., Pierre.

**TENNESSEE**: James I. Ritchie, Chamber of Commerce, 226 7th Ave. N., Nashville.

**TEXAS**: Carl C. Hardin, Mgr., Private Truck Owners Assn. of Texas, P. O. Box 1091, Austin.

**UTAH**: Lyle D. Sarvis, Mgr., Utah State Automobile Assn., 379 S. 6th St. E., Salt Lake City.

**VERMONT**: Harold J. Arthur, Master, Vermont State Grange, 188 Main St., Burlington.

**VIRGINIA**: C. B. McFee, Automotive Trade Assn., 1800 W. Grace St., Richmond.

**WASHINGTON**: J. C. Gregory, Manager, Automobile Club of Washington, 1109 Pine St., Seattle 1.

**WEST VIRGINIA**: Francis C. Farley, Exec. Secy., W. Va. Petroleum Assn., Rm. 709 Atlas Bldg., 1031 Quarrier St., Charleston 1.

**WISCONSIN**: F. M. Elliott, Exec. Secy., Wis. Petroleum Industries Committee, 122 W. Washington Ave., Room 415, Madison 3.

**WYOMING**: Allen H. Stewart, Attorney-at-Law, 526 S. Center St., Casper.



## association directory

N.W., Washington 6, D. C., Francis W. Crary, Exec. Dir.

**NATIONAL FILM CARRIERS, INC.**, 1239 Vine St., Philadelphia 7, Clint Weyer, Sec.

**NATIONAL FURNITURE WAREHOUSEMEN'S ASSN.**, 327 S. La Salle

St., Chicago 4, Edward D. Byrnes, Exec. Dir.

**NATIONAL HIGHWAY USERS CONFERENCE, INC.** (1932), National Press Bldg., Washington 4, D. C.

**STAFF EXECUTIVES:**  
Director—Arthur C. Butler.

Asst. Director—P. D. McLean.  
Research Counsel—Yule Fisher.  
Engineering Counsel—Roy E. Jorgensen.  
State Services Dept.—Russell E. Mag-Cleery, Mgr.; Harold Gray, Field Mgr.

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## ASSOCIATED GENERAL CONTRACTORS OF AMERICA HIGHWAY AND HEAVY CONTRACTOR DIVISION CHAPTERS

**ALABAMA** branch, 711 11th St. S., Box 1390, Birmingham, J. B. Rawls, Exec. Sec.

**ARIZONA** chapter, 302 Luhrs Bldg., Phoenix, Glenn E. King, Exec. Sec.

**ARKANSAS** chapter, 715 W. 2nd St., Box 2421, Little Rock, Ray Metzger, Sec.-Treas.

**CALIFORNIA** chapters: Central—850 Battery St., San Francisco 11, A. Bruce McKenzie, Sec. Mgr.; Northern—850 Battery St., San Francisco, Frank W. Callahan, Sec. Mgr.; San Diego—455 Spreckels Bldg., San Diego 1, Glenn A. Dowdy, Exec. Sec.; Southern—2551 Beverly Blvd., Los Angeles, W. D. Shaw, Mgr.

**COLORADO CONTRACTORS ASSN., INC.**, Suite 169-170, Shirley Savoy Hotel, Denver 2, Earle W. Devalon, Man. Dir.

**CONNECTICUT** chapter, 152 Temple St., New Haven, Charles F. Grisham, Exec. V. P.

**A. G. C. OF DELAWARE**, 1009 Washington St., Wilmington, Frank Gallagher, Sec.

**FLORIDA** chapters: Northeastern—3110 Beach Blvd., Jacksonville 1, R. H. Munsie, Exec. Mgr.; South—1113 Congress Bldg., Miami 32, Paul H. Hinds, Exec. Mgr.; West Coast—Box 13316, Tampa 11, G. Perrin McConnell, Exec. Mgr.; Northwest—201 S. F St., Pensacola, Tillman C. Burks, Sec. Mgr.; East Coast—the Wakeman Bldg., 361 S. County Rd., Palm Beach, Wm. P. Bobb, Jr., Exec. Mgr.; Tallahassee—Box 694, Tallahassee, Douglas Cooksey, Sec.-Treas.; Central—22 E. Vanderbilt Ave., Orlando, Edwin R. Brown, Exec. Sec.

**GEORGIA** branch, A. G. C. Bldg., 163 Harris St. N.W., Atlanta, Robert H. Strickland, Exec. Sec.

**IDAHO** Branch, 1210 Grove St., Boise, John P. Molitor, Exec. Sec.

**A. G. C. OF ILLINOIS**, Box 377, 319 1/2 S. 6th St., Springfield, R. J. Young, Exec. Sec.

**SOUTHERN ILLINOIS BUILDERS ASSN.**, 505 N. 73rd St., East St. Louis, H. L. Gangnath, Mgr.

**CENTRAL ILLINOIS BUILDERS**, Elks Club Bldg., Springfield, H. E. Hilton, Exec. Sec.

**INDIANA HIGHWAY CONSTRUCTORS, INC.**, 801 Roosevelt Bldg., Indianapolis 4, W. M. Holland, Exec. Sec.

**A. G. C. OF IOWA**, 707 Keo Way, Des Moines 9, O. W. Crowley, Exec. Sec.

**THE KANSAS CONTRACTORS ASSN., INC.**, Suite 324A, Hotel Jayhawk, Topeka, J. W. Ballard, Mgr.

**KENTUCKY HIGHWAY DIVISION**, New Capitol Hotel, Frankfort, W. O. Snyder, Exec. Sec.

**LOUISVILLE (Ky.) Chapter**, Box 125, Station E., Louisville 8, George C. Long, Exec. Sec.

**A. G. C. OF WESTERN KENTUCKY**, Box 926, 1930 N. 13th St., Paducah, Oba D. Fields, Sec. Mgr.

**LOUISIANA** chapters: New Orleans—Suite 500, Audubon Bldg., 931 Canal St., New Orleans 16, Sidney H. Walker, Man. Dir.; Lake Charles—Box 1518 Lake Charles, C. L. Kittrell, Exec. Sec.

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**A. G. C. OF MAINE**, 172 Maine St., Brunswick, Reginald C. Barrows, Exec. Dir.

**A. G. C. OF MASSACHUSETTS, INC.**, 551 Boylston St., Room 81, Boston 16, Joel B. Leighton, Man. Dir.

**MICHIGAN ROAD BUILDERS ASSN., INC.**, 2000 Michigan Nat'l. Tower, Lansing 8, C. J. Carroll, Exec. Sec.

**DETROIT** chapter, 1437 Book Bldg., Detroit 26, Ralph A. MacMullan, Sec. Mgr.

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**A. G. C. OF MISSOURI**, Hotel Governor Bldg., Jefferson City, J. G. Robinson, Mgr.

**A. G. C. OF ST. LOUIS**, 1049 Coronado Hotel, St. Louis 8, Mo., Henry S. Till, Jr., Mgr.

**MONTANA CONTRACTORS' ASSN., INC.**, Mezzanine, Placer Hotel, Helena, J. W. Marlow, Sec. Mgr.

**NEBRASKA** chapter, 425 Trust Bldg., Lincoln 8, James Critchfield, Mgr.

**NEVADA** chapter, Security Nat'l. Bank Bldg., Box 478, Reno, Edward L. Pine, Sec. Mgr.; Las Vegas office—115 S. Main St., Att. John E. Pelton

**A. G. C. OF NEW HAMPSHIRE & VERMONT**, 10 Acquilla Bldg., 3 Pleasant St., Concord, N. H., Rowland Oakes, Exec. Sec.

**A. G. C. OF NEW JERSEY**, 52 W. State St., Trenton 8, Hugh J. Connelly, Gen. Mgr.

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**NEW YORK STATE CHAPTER, INC.**, DeWitt Clinton Hotel, Albany 7, Holden A. Evans, Jr., Man. Dir.

**CAROLINAS** branch, Box 1459, Suite 222, Builders Bldg., Charlotte 1, Robert Patten, Man. Dir.; Charleston Service Office, Box 448, Charleston, Mrs. Dorothy K. Buckholdt, Sec.

**A. G. C. OF NORTH DAKOTA**, 110 3rd St., Box 1225, Bismarck, Charles L. Hoffman, Mgr.

**OHIO** chapters: Akron—640 N. Main St., Akron 10, Geo. D. Martter, Sec.; Cincinnati—1010 Yale Ave., Cincinnati 6, J. A. Higgins, Mgr.; Cleveland—1737 Euclid Ave., Cleveland 15, Charles W. Jauch, Exec. Sec.

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**ASSN. OF OKLAHOMA GENERAL CONTRACTORS**, 1100 Biltmore Hotel, Oklahoma City, Glenn McDonald, Mgr.

**PORTLAND (Ore.) chapter**, 129 S.W. 3rd Ave., Portland 4, A. H. Harding, Mgr.

**CONSTRUCTORS ASSN. OF WESTERN PENNSYLVANIA**, 1506 Union Bank Bldg., Pittsburgh 22, Thurman C. Tejan, Exec. Sec.

**CONTRACTORS ASSN. OF PHILADELPHIA & EASTERN PENNA.**, 1045 Suburban Stn. Bldg., Philadelphia 3, H. A. Windisch, Exec. Sec.

**A. G. C. OF SOUTH DAKOTA, INC.**, St. Charles Hotel, Box 467, Pierre, James Hunt, Sec.

**TENNESSEE** chapters: Chattanooga—1003 Volunteer State Life Bldg., Jere T. Tipton, Counsel; Memphis—320 S. Dudley St., Memphis 4, James P. Smith, Sec. Mgr.; Nashville—618 Stahlman Bldg., Nashville 3, R. L. Alexander, Sec.

**TEXAS HIGHWAY — HEAVY** branch, Driskill Hotel, Austin 61, James M. Richards, Exec. Sec.

**INTERMOUNTAIN** branch, 430 S. Main St., Salt Lake City 1, Utah, W. D. Eldredge, Exec. Mgr.

**VIRGINIA** branch, Hotel King Carter, Richmond 19, Frank L. Fleenor, Exec. Sec.

**WASHINGTON** chapters: Mountain Pacific—220 W. Harrison St., Seattle 1, W. H. Landaas, Sec. Mgr.; Seattle—215 W. Harrison St., Seattle 99, Colton D. Harper, Mgr.; Spokane—S. 102 Stevens St., Spokane 1, Sam C. Guess, Exec. Sec.; Tacoma—1605 Center St., Tacoma 2, Robert F. Shapley, Mgr.

**THE A. G. C. OF WEST VIRGINIA, INC.**, 403 Nat'l Bank of Commerce Bldg., Charleston, Eugene H. Brown, Exec. Sec.

**WISCONSIN** chapters: Wisconsin—Jackson Bldg., Janesville, J. Harry Green, Mgr., Sec.-Treas.; Milwaukee—1215 W. Galena St., Milwaukee 5, George A. Benish, Mgr.

**A. G. C. OF WYOMING**, c/o Inland Construction Co., Box 197, Cheyenne, Murray D. McLaughlin, Sec.

**ALASKA** chapter, Box 992, Anchorage, L. A. Moore, Mgr.

## association directory

### NATIONAL ASSOCIATIONS —continued

Mgr. Legislative Reporting Dept.—  
Myles English.  
Mgr. Public Info. Dept.—John E. Moore.  
Safety Coordinator—William J. Simon.  
Special Services Dept.—G. Tinsley  
Garnett, Mgr.

**REGIONAL REPRESENTATIVES:**  
(Note: For exact locations, address  
through National headquarters in  
Washington)  
James E. Basham, Kansas City, Mo.  
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John E. Boyd, Jr., Salt Lake City,

Utah (Colo., Nev., Utah & Wyo.)  
R. W. Callan, Seattle, Wash. (Idaho,  
Mont., Ore. & Wash.)  
J. Olan Cooper, Auburn, Alabama (Ala.,  
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Glen B. Dunkle, Nashville, Tennessee  
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David L. Kelly, Chapel Hill, N. C.  
(N. C., S. C., Va. & W. Va.)  
Michael LeFere, Okemos, Mich. (Ind.,  
Mich. & Ohio)  
David F. McQuaid, Nashua, N. H.  
(Supervision & field work in New  
York & New England States)  
John Thornton Newman, Albany, N. Y.

(Conn. & N. Y.)  
Herbert B. Simpson, San Francisco,  
Cal. (California & supervision in 12  
Western States)  
George A. White, Arlington, Va. (Del.,  
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(See also Listing under State Highway  
Users Conferences)

**NATIONAL HORSE CARRIERS ASSN.,**  
301 W. Main St., Louisville 2, Ky., H.  
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**NATIONAL SAFETY COUNCIL (1913),**  
425 N. Michigan Ave., Chicago 11.

**STAFF EXECUTIVES:**  
Ned H. Dearborn, President.  
G. C. Stewart, Exec. V. P.  
Paul H. Coburn, Dir. Motor Transpor-  
tation Div.

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**ALABAMA:** E. N. Rodgers, Engr.-Mgr.,  
Alabama Road Builders' Assn., 215  
Bell Bldg., Montgomery 4.

**CAROLINAS:** S. C. Austin, Mgr., High-  
way & Heavy Div., Carolinas Br.,  
A.G.C., Sir Walter Hotel, Raleigh,  
N. C. (N.C. & S.C.)

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Michigan Road Builders Assn., 2000  
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**MISSISSIPPI:** Mrs. Eleanor Magruder,  
Exec. Sec., Mississippi Road Builders  
Assn., 308 Robert E. Lee Hotel, Jack-  
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**NEW ENGLAND:** Gordon E. Gaffney,  
Exec. Sec., New England Road Builders  
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**PENNSYLVANIA:** A. E. O'Brien, Exec.  
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burg.

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Carter Hotel, Richmond 19.

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### STATE AND SECTIONAL BUS ASSOCIATIONS

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Montgomery, Ala., Luther Vines, Sec.

**\*ARIZONA BUS ASSN.,** Greyhound Ter-  
minal Bldg., Phoenix, Ariz., R. N.  
Dick, Sec.

**\*ARKANSAS BUS AND TRUCK ASSN.**  
(See State Motor Truck Assn.)

**\*CALIFORNIA BUS ASSN. (1955),** 1322  
Webster St., Oakland, Cal., J. R.  
Worthington, Sec.-Mgr.

**CONNECTICUT MOTOR STAGE ASSN.,**  
INC. (1922), 66 Linden St., Waterbury,  
Conn., Frank T. Healey, Jr., Sec.

**SOUTHEASTERN BUS TRAFFIC**  
**ASSN., INC.,** Division National Bus  
Traffic Assn., 81 Cain St., N.W., At-  
lanta, Ga., Mrs. Mary H. Williams,  
Sec.-Mgr.

**\*ILLINOIS BUS ASSN. (1925),** 523 E.  
Capitol Ave., Springfield, Ill., Miss Al-  
toe Nelson, Exec.-Sec.

**\*INDIANA BUS ASSN., INC. (1935),** 218  
Bankers Trust Bldg., Indianapolis 4,  
Ind., Harry J. Harman, Sec.

**KENTUCKY PASSENGER BUS ASSN.**  
(1937), 801 No. Limestone St., Lexing-  
ton 15, Ky., W. E. Jones, Sec.-Treas.

**NEW ENGLAND TRANSIT CLUB,** 10  
High St., Boston 10, Mass., Ralph D.  
Baker, Sec.

**MARYLAND MOTOR BUS OPERATORS**  
**ASSN., INC.,** 2600 N. Howard St.,  
Baltimore, J. A. Bowers, Pres.

**\*MICHIGAN MOTOR BUS ASSN. (1921),**  
404 Hollister Bldg., Lansing, Mich.,  
Edna Wenzlick, Sec.

**\*NEW ENGLAND BUS ASSN.,** 291  
Washington St., Geneva, N. Y., Leon  
A. Penoyer, Exec. Sec.

**\*NEW JERSEY MOTOR BUS ASSN.,**  
INC. (1935), 921 Bergen Ave., Jersey  
City, N. J., Nathaniel L. Fish, Sec.-  
Treas.

**\*INTERCITY BUS ASSN. OF NEW**  
**YORK STATE, INC. (1938),** 630 City  
& County Savings Bank Bldg., Albany  
7, N. Y., Ruth Stracher, Exec. Sec.

**NEW YORK STATE MOTORBUS**  
**ASSN., INC. (1934),** D. & H. Bldg.,  
19-20 Plaza, Albany 7, Brig. Gen. B. T.  
Fay, Exec. V. P. & Sec.

**NORTHEASTERN BUS TRAFFIC**  
**ASSN., c/o National Bus Traffic Assn.,**  
Inc., 506 S. Wabash Ave., Chicago 5,  
V. D. Morris.

**\*OHIO MOTOR BUS ASSN. (1922),** 209 S.  
3rd St., Columbus 15, Ohio, R. J.  
Lewis, Sec.-Treas.

**ASSOCIATED MOTOR CARRIERS OF**  
**OKLAHOMA, INC. (1932),** Suite 2315,  
Biltmore Hotel, P. O. Box 983, Okla-

homa City, Okla., Fisher Muldrow,  
Exec. V. P.

**\*OREGON BUS ASSN. (1933),** 509 S.W.  
Taylor St., Portland 4, Ore., R. K.  
Reed, Sec.-Treas.

**\*PENNSYLVANIA BUS ASSN. (1923),**  
Telegraph Bldg., Locust & Court Sts.,  
Harrisburg, Pa., Jennie B. Brugnoli,  
Exec. Sec.

**\*TEXAS MOTOR BUS ASSN., INC.,** 211  
W. 14th St., Austin, Tex., J. Manley  
Head, Sec.-Mgr.

**TRI-STATE MAINTENANCE ASSN., c/o**  
Philadelphia Suburban Transportation  
Co., Upper Darby, Pa., George Cor-  
nellius, Sec.

**\*VIRGINIA PASSENGER BUS ASSN.,**  
Box 7236, Richmond, Va., Harris  
Mitchell, Exec.-Sec.

**\*MOTOR COACH ASSN. OF WASHING-**  
**TON (1920),** Box 946, 1509 Columbia  
St., Olympia, Wash., Mrs. Mary Mat-  
thias, Asst. Secy.-Mgr.

**\*WEST VIRGINIA BUS ASSN. (1924),**  
Box 1267, Charleston 25, W. Va., Col.  
M. S. Aldrich, Mgr. Dir.

\*Affiliated with National Association of  
Motor Bus Operators.

## association directory

**NATIONAL TRUCK LEASING SYSTEM**  
(1945), 23 E. Jackson Blvd., Chicago  
4, Ill., Miss Martha Dunlap, Exec. Dir.

**NATIONAL TRUCK TANK & TRAILER  
TANK INSTITUTE**, 120 S. LaSalle St.,  
Chicago 3, Allan R. Smith, Exec. Sec.

**NATIONAL WHEEL & RIM ASSN.**, 3663

Forest Park Ave., St. Louis 8, Mo.,  
H. M. Young, Acting Sec.

**POWER CRANE & SHOVEL ASSN.**, 75  
West St., New York 6, Herbert S.  
Blake, Jr., Sec.

**PRIVATE TRUCK COUNCIL OF AMER-  
ICA, INC.** (1939), (Formerly National

Council of Private Motor Truck Own-  
ers, Inc.), Sheraton Bldg., Washington  
5, D. C., James D. Mann, Man. Dir.

**SCHOOL BUS BODY MANUFACTUR-  
ERS ASSN.**, 75 West St., New York 6.  
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## LOCAL FLEET ASSOCIATIONS

**SOCIETY OF FLEET SUPERVISORS OF  
GREATER MIAMI**, P. O. Box 267,  
Riverside Station, Miami 10, Fla., H.  
G. Schaefer, Sec.

**FLEET SUPERVISORS ASSN.** (1951)  
1093 Gun Club Dr., N.W., Atlanta, Ga.,  
C. B. Snead, Pres.

**MIDWEST FLEET SAFETY SUPER-  
VISORS ASSN.**, c/o Super Valu Stores,  
Inc., 101 Jefferson Ave., S. Hopkins,  
Minn., Harland Flynn, Sec.

**GREATER KANSAS CITY FLEET  
MAINTENANCE ASSN.**, 4838 Wood-  
end, Kansas City 6, Mo., J. B. Ander-  
son, Sec.

**MAINTENANCE COUNCIL, N. CARO-  
LINA MOTOR CARRIERS ASSN.**  
(1953), The A. G. Boone Co., 1117 S.  
Clarkson St., Charlotte, N. C., Walter  
H. Allison.

**SOCIETY OF FLEET SUPERVISORS.**  
INC. (New York) (1945) 88-49 69 Road,  
Forest Hills 75, N. Y., William J.  
Maher, Sec.

**MOTOR TRUCK MAINTENANCE CLUB  
OF NEW YORK** (1925), c/o Tidewater  
Oil Co., 17 Battery Place, New York,  
N. Y., W. A. Kerkum, Sec.-Treas.

**TRUCK AND BUS MAINTENANCE  
ASSN. OF BUFFALO INC.** 762 Eg-

gart Road, Buffalo, N. Y., Martin H.  
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**OKLAHOMA CITY FLEET SUPER-  
VISORS ROUNDTABLE**, 319 Hales  
Bldg., Oklahoma City, Okla., I. L.  
Irby, Chairman.

**FLEET MAINTENANCE ASSN. OF  
PHILADELPHIA, INC.** (1948), 16 De-  
chert Rd., Conshohocken, Pa., Jack R.  
Schaefer, Sec.

**FLEET MAINTENANCE COUNCIL INC.  
OF AKRON**, 200 Carroll St., Akron,  
Ohio, Clyde Lang, Sec.

## SAE LOCAL SECTIONS AND GROUPS

**ALBERTA Group**: Lloyd O. Lundquist,  
Borger Bros. Ltd., 2004 14-A St. E.,  
Calgary, Alta., Canada.

**ATLANTA Section**: Cecil R. Stockard,  
5141 Riverview Rd., N.W., Atlanta 6,  
Ga.

**BALTIMORE Section**: LeRoy T. Wallick,  
c/o White Motor Co., 708 E. 25th St.,  
Baltimore 18, Md.

**BRITISH COLUMBIA**: John B. Tomp-  
kins, Westrade Publications Ltd., 779  
W. Broadway, Vancouver 9, B. C.,  
Canada

**BUFFALO**: Richard A. Batt, Trico Prod-  
ucts Corp., 817 Washington St., Buffalo  
3, N. Y.

**CANADIAN Section**: George R. Jackson,  
c/o Ontario Motor League, 6 Adelaide  
St. E., Toronto 1, Ont., Canada

**CENTRAL ILLINOIS**: Donald W. Knopf,  
102 E. Virginia Ave., Peoria 4, Ill.

**CHICAGO**: Edward D. Hendrickson,  
Hendrickson Mfg. Co., 8001 W. 47th  
St., Lyons, Ill.

**CINCINNATI**: Arthur R. Ehrnschwen-  
der, Cincinnati Gas & Electric Co.,  
2130 Dana Ave., Cincinnati 7, Ohio

**CLEVELAND**: John P. Henson, Bendix-  
Westinghouse Auto. Air Brake Co.,  
901 Cleveland St., Elyria, Ohio

**COLORADO Group**: Robert R. Atchison,  
15 Newton St., Denver 19, Colo.

**DAYTON**: Robert R. Schweller, Delco  
Products Div., GMC, 329 E. First St.,  
Dayton 2, Ohio

**DETROIT**: Miss Edith McCoy, Detroit  
Section S. A. E., Rackham Educa-  
tional Memorial Bldg., 100 Farnsworth  
Ave., Detroit 2, Mich.

**HAWAII**: W. J. Maze, 2817A Puumele  
Pl., Honolulu 17, T. H.

**INDIANA**: Darrell D. Don Carlos, c/o  
Allison Div., General Motors Corp.,  
Indianapolis, Ind.

**KANSAS CITY**: Evan D. Bolln, Socony  
Mobil Oil Co. Inc., White Eagle Div.,  
Federal Reserve Bank Bldg., Kansas  
City, Mo.

**METROPOLITAN Section**: Robert W.  
Hogan, Ethyl Corp., 100 Park Ave.,  
New York 17, N. Y.

**MID-CONTINENT**: Idan E. Flaa, Ethyl  
Corp., 305 S. Kenosha, Tulsa 5, Okla.

**MID-MICHIGAN**: Everett W. Otto, F. J.  
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Dort Highway, Flint 7, Mich.

**MILWAUKEE**: Leo J. Lechtenberg, c/o  
Briggs & Stratton Corp., 2711 N. 13th  
St., Milwaukee 1, Wisc.

**MOHAWK-HUDSON**: John F. Hill, Gen-  
eral Electric Co., Ind. Gas Turbines  
Div., Bldg. 53, Room 423, Schenectady,  
N. Y.

**MONTREAL**: William E. MacKenzie, Auto  
Div., Canadian Car Co. Ltd., 621 Craig  
St. W., Montreal 3, Que., Canada

**NEW ENGLAND**: Stuart W. Kneen,  
Bovertown Body & Equipment Co.,  
1955 Massachusetts Ave., Cambridge  
40, Mass.

**NORTHERN CALIFORNIA**: Ernest  
Starkman, University of California,  
Berkeley, Cal.

**NORTHWEST**: Harold R. Glinther, 615  
N. 180th St., Seattle 23, Wash.

**OREGON**: Milton E. Winters, City of  
Portland, Dept. of Public Works, 2835  
N. Kerby Ave., Portland 12, Ore.

**PHILADELPHIA**: Donald R. Diggs, c/o  
E. I. du Pont de Nemours & Co., Box  
1671, Wilmington 99, Del.

**PITTSBURGH**: Harry A. Bigley Jr., c/o  
Gulf Res. & Dev. Co., P. O. Drawer  
2038, Pittsburgh 30, Pa.

**ST. LOUIS**: Robert S. Lemen, c/o Be-Mac  
Transport Co., 7400 N. Broadway, St.  
Louis 16, Mo.

**SALT LAKE GROUP**: John C. Bates,  
Sperry Rand Corp., Utah Engrg. Lab.  
(Des.), 322 N. 21st W. St., Salt Lake  
City, Utah

**SAN DIEGO**: Lewis K. Pratt, Box 855,  
Rancho Santa Fe, Cal.

**SOUTHERN CALIFORNIA**: R. E. Stras-  
ser, Fairchild Engine Div., 7046 Holly-  
wood Blvd., Hollywood 28, Cal.

**SOUTHERN NEW ENGLAND**: Arno G.  
Kalb, Pratt & Whitney Aircraft Div.,  
United Aircraft Corp., 400 Main St.,  
E. Hartford, Conn.

**SOUTH TEXAS Group**: Benjamin F.  
White, Southwest Res. Inst., 8500  
Culebra Rd., San Antonio, Texas

**TWIN CITY**: Donald L. Van Orman,  
Timken Roller Bearing Co., 1609 Hen-  
nepin Ave., Minneapolis 3, Minn.

**SPOKANE-INTERMOUNTAIN**: E. R.  
Donner, Standard Oil Co. of Cal., Old  
Nat'l Bank Bldg., Spokane, Wash.

**SYRACUSE**: Lloyd L. McArthur, 116  
Pine Tree Dr., N. Syracuse, N. Y.

**TEXAS**: H. Patrick Warren, H. Patrick  
Warren & Co., Box 10307, Dallas 7,  
Texas

**TEXAS-GULF COAST**: Charles F. Goff,  
Dow Chemical Co., Texas Div., Free-  
port, Texas

**VIRGINIA**: William L. Bragg, Dominion  
Chevrolet Co., 1351 W. Broad St.,  
Richmond, Va.

**WASHINGTON**: Ivison W. Rhodes, Jr.,  
1500 20th St. S., Arlington 2, Va.

**WESTERN MICHIGAN**: Edward Wick-  
land, 1915 Howden St., Muskegon,  
Mich.

**WICHITA**: Monroe F. Kent, Associated  
Air Services, 815 E. Harry, Wichita,  
Kans.

**WILLIAMSPORT**: Donald A. Bernardi,  
Bloomington Rd., Williamsport, Pa.

## association directory

### NATIONAL ASSOCIATIONS —continued

**SOCIETY OF AUTOMOTIVE ENGINEERS, INC.** (1905), 485 Lexington Ave., N. Y.

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SAE Western Branch Office—714 W. Olympic Blvd., Los Angeles 15, Cal., E. W. Rents, Jr., Mgr.  
(See also listing under SAE Sections and Groups)

**TRANSPORTATION ASSN. OF AMERICA** (1935), 1001 Connecticut Ave., N.W., Washington 6, D. C., Harold F.

Hammond, Exec. V. P., 6 N. Michigan Ave., Chicago 2, Edith C. Krogh, Sec.

**TRUCK BODY AND EQUIPMENT ASSN., INC.** (1948), 401-402 Washington Bld. of Trade Bldg., 1616 K St., N.W., Washington 6, D. C., Arthur H. Nuesse, Exec. Mgr.

**TRUCK-TRAILER MANUFACTURERS ASSN., INC.** (1941), Room 710, Albee Bldg., 1426 G St. N.W., Washington 5, D. C., John B. Hulise, Mgr.-Dir.

**WESTERN HIGHWAY INSTITUTE** (1947), 130 Montgomery St., San Francisco 4, Cal., John L. Springer, Exec. Dir.

## SCHOOLS OFFERING FLEET TRAINING COURSES

**ALABAMA:** M. O. Hulsey, Trade and Industrial Education Dept., Box 1813, University of Alabama, University, Ala.

**ARIZONA:** J. D. Park, College of Engineering, University of Arizona, Tucson, Ariz.

**CALIFORNIA:** (1) Bob Glenn, Institute of Transportation and Traffic Engineering, University of California, Berkeley 4, Cal. (2) J. H. Mathewson, Institute of Transportation and Traffic Engineering, University of California, Los Angeles 24, Cal.

**COLORADO:** W. M. Lewis, Community College Civic Center, University of Denver, Denver 2, Colo.

**CONNECTICUT:** A. L. Jeffurs, Extension Division, University of Connecticut, Storrs, Conn.

**FLORIDA:** (1) G. M. Turner, General Extension Division, University of Florida, Gainesville, Fla. (2) S. P. Messer, Safety Education, University of Miami, Coral Gables 46, Fla. (3) W. L. Hooper, Trade and Industrial Education, Jacksonville School of Technology, Jacksonville, Fla. (4) L. B. Tyndall, Board of Public Education, P. O. Box 391, Bartow, Fla. (5) M. J. Casto, Mary Karl Vocational School, P. O. Box 1111, Daytona Beach, Fla. (6) C. A. Bellum, Sarasota Vocational School, Sarasota, Fla. (7) K. F. Johnson, Palm Beach County Vocational School, West Palm Beach, Fla.

**GEORGIA:** (1) W. N. Cox, Jr., School of Industrial Engineering, Georgia Institute of Technology, Atlanta, Ga. (2) J. H. Lemly, Georgia State College of Business Administration, Atlanta 3, Ga.

**ILLINOIS:** (1) G. V. Carmichael, The Traffic Institute, Northwestern University, Evanston, Ill. (2) Robert Newton, College of Commerce and Business Administration, University of Illinois, Urbana, Ill. (3) K. M. Hutchison, Heavy Equipment Division, Greer Shop Training, Inc., 2230 South Michigan Ave., Chicago 16, Ill.

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**IOWA:** M. E. Gould, Engineering Extension Services, Iowa State College, Ames, Iowa.

**KANSAS:** (1) Marvin Criqui, Lawrence Center, University Extension, University of Kansas, Lawrence, Kan. (2) N. W. Rickhoff, Extension Center, University of Kansas, Kansas City, Kan.

**KENTUCKY:** Lew Ullrich, Kentucky Motor Transport Assn., 601 Republic Bldg., Louisville 2, Ky.

**LOUISIANA:** J. P. Dyer, University College, Tulane University of Louisiana, New Orleans 18, La.

**MARYLAND:** J. B. Blackburn, Glenn L. Martin College of Engineering and Aeronautical Sciences, University of Maryland, College Park, Md.

**MASSACHUSETTS:** F. M. Cushman, Traffic Management Institute (traffic and transportation courses), or N. G. Copp, Bureau of Business and Industrial Training (fleet training courses), Northeastern University, Boston 15, Mass.

**MICHIGAN:** J. C. Kohl, Dept. of Civil Engineering, University of Michigan, Ann Arbor, Mich.

**MINNESOTA:** F. E. Berger, Center for Continuation Study, University of Minnesota, Minneapolis 14, Minn.

**MISSISSIPPI:** (1) O. D. Smith, Evening and Center Courses, University Extension, University of Mississippi, University, Miss. (2) E. E. Davidson, Millsaps Center, University of Mississippi, Jackson, Miss.

**MONTANA:** L. W. Eckel, Montana Motor Transport Assn., P. O. Box 1244, Billings, Mont.

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**NEVADA:** P. R. Kelly, Evening Sessions, University of Nevada, Reno, Nev.

**NEW HAMPSHIRE:** F. H. Plaisted, University Extension Service, University of New Hampshire, Durham, N. H.

**NEW JERSEY:** W. J. Daw, University Extension Division, Rutgers University, New Brunswick, N. J.

**NEW MEXICO:** M. H. McMichael, Division of Extension, Summer Session and Community Services, University of New Mexico, Albuquerque, N. M.

**NEW YORK:** (1) H. J. Stack, Center for Safety Education, New York University, New York 3, N. Y. (2) B. P. Crandall, College of Business Administration, Syracuse University, Syracuse 10, N. Y. (3) Nicholas Kish, Millard Fillmore College, University of Buffalo, Buffalo, N. Y. (4) Donald Hoppe, Counselor, Rochester Institute of Technology, Rochester 3, N. Y. (5) H. N. Roehl, Evening Division, Broome Technical Institute, Binghamton, N. Y.

**NORTH CAROLINA:** (1) E. W. Ruggles, College Extension Division, North Carolina State College of Agriculture and Engineering, University of North Carolina, Raleigh, N. C. (2) National School of Heavy Equipment Opera-

tion, P. O. Box 8248, Charlotte, N. C.

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**OKLAHOMA:** M. L. Powers, Business and Industrial Services, University of Oklahoma, Norman, Okla.

**OREGON:** William Engesser, Dept. of Industrial Engineering (supervisor courses) or W. H. Paul, Dept. of Mechanical Engineering (maintenance courses), Oregon State College, Corvallis, Ore.

**PENNSYLVANIA:** A. E. Neyhart, Institute of Public Safety, The Pennsylvania State University, University Park, Pa.

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**UTAH:** G. R. Holt, Extension Division, University of Utah, Salt Lake City, Utah.

**VIRGINIA:** J. B. Kinker, Jr., Conferences and Short Courses, Extension Division, University of Virginia, Charlottesville, Va.

**WASHINGTON:** F. H. Rhodes, Jr., Civil Engineering Dept., University of Washington, Seattle 5, Wash.

**WEST VIRGINIA:** M. O. Mills, West Virginia State College, University, W. Va.

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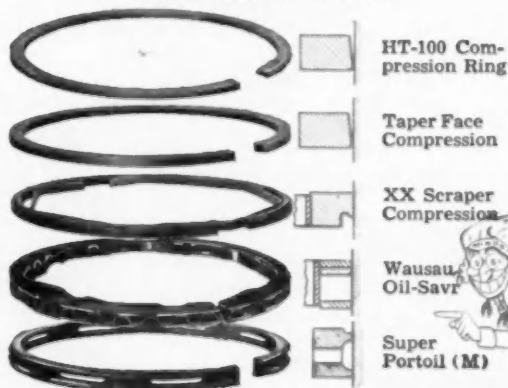
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 Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 60F, Mich.  
 Rockwell Mfg. Co., Delta Power Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.  
 Schauer Machine Co., 4500 Alpine Ave., Rosemead, Ohio.  
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
 Skill Corp., 5033 Elston Ave., Chicago, Ill.  
 Speed Way Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.  
 Standard Electrical Tool Co., Mt. Hope & River Rd., Cincinnati 4, Ohio.  
 Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.  
 Thor Power Tool Co., Prudential Bldg., Chicago, Ill.  
 United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.  
 Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.  
 Walker-Turner Div., Kearney & Trecker Corp., 900 North Ave., Plainfield, N. J.  
 Wickman Mfg. Co., 10325 Capital Ave., Oak Park, Detroit 37, Mich. (Carbide.)  
 Wilson, Inc., K. R., Arcade, N. Y.  
 Wisconsin Mfg. Co., 1301 S. 3rd St., Minneapolis, Minn.

## GRINDERS, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.  
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.  
 Van Norman Co., 3640 Main St., Springfield 7, Mass.

## GRINDERS, Brake Lining and Shoe

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
 Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Grinders.)  
 Evans Reamer & Machine Co., New Lexington, Ohio.  
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
 Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.  
 Shepard-Thomson Co., 2023 W. Gage Ave., Los Angeles 47, Calif. (Combination brake lining and brake shoe grinding.)  
 Wilder Co., M. B., 2024 St. Mary's Ave., Omaha 2, Nebr. (Also combination countersinking, riveting and grinding machine.)  
 Wilson, Inc., K. R., Arcade, N. Y.

## GRINDERS, Crankshaft

Evans Reamer & Machine Co., New Lexington, Ohio.  
 Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.  
 Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Portable.)  
 Norton Co., 1 New Bond St., Worcester 6, Mass.  
 Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.  
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Attachment.)  
 Van Norman Co., 3640 Main St., Springfield 7, Mass.  
 Waterbury Tool, Div. of Vickers, Inc., 138 E. Aurora St., Waterbury 91, Conn. (Portable.)  
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

## GRINDERS, Cylinder

Heald Machine Co., 14 New Bond St., Worcester 6, Mass.  
 Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.  
 Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

## GRINDERS, Drill

Black Diamond Saw & Machine Works, 81 North Ave., Natick, Mass.

Consolidated Machine Tool Corp., Winton & Blossom Rd., Rochester 10, N. Y.  
 Covell Mfg. Co., Graham Ave., Benton Harbor, Mich.  
 Dunmore Co., 1300 17th St., Racine, Wis.  
 Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.  
 La Salle Tool Co., 507 W. Washington St., Chicago 8, Ill.  
 McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis.  
 Oliver Instrument Co., 1410 E. Maumee St., Adrian, Mich.  
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.  
 Rockwell Mfg. Co., Delta Power Tool Div., 400 N. Lexington Ave., Pittsburgh 8, Pa.

## GRINDERS, Engine Head and Block

(Advertisers Only)

Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
 Van Norman Automotive Equipment Co., Springfield 7, Mass.

## GRINDERS, Piston Ring

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.  
 Heald Machine Co., 14 New Bond St., Worcester 6, Mass.  
 Lehman Machine Co., 3560 Chouteau Ave., St. Louis 3, Mo.

## GRINDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
 Buckeye Tools Corp., 5005 Springboard Pike, Dayton 9, Ohio.  
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
 Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.  
 Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.  
 Dremel Mfg. Co., 2420 18th St., Racine, Wis.  
 Dumore Co., 1300 17th St., Racine, Wis.  
 Duro Metal Products Co., 2649 N. Kildare St., Chicago 31, Ill.  
 Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
 Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.  
 Millers Falls Co., Greenfield, Mass.  
 Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.  
 Precision Products Corp., 3715 Blue Ribbon Rd., Racine, Wis.  
 Rotor Tool Co., 23600 Lakeland Ave., Cleveland 32, Ohio.  
 Skill Corp., 5033 Elston Ave., Chicago, Ill.  
 Speed Way Mfg. Co., 1834 S. 52nd Ave., Cicero, Ill.  
 Stanley Electric Tools Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.  
 Thor Power Tool Co., Prudential Bldg., Chicago, Ill.  
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.

## GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.  
 Buckeye Tools Corp., 5005 Springboard Pike, Dayton 9, Ohio.  
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
 Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.  
 Madison-Kipp Corp., 201 Waubesa St., Madison, Wis.  
 Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.  
 Onsrud Machine Works, Inc., 3900 Palmer St., Chicago 47, Ill.  
 Rotor Tool Co., 23600 Lakeland Ave., Cleveland 32, Ohio.  
 Skill Corp., 5033 Elston Ave., Chicago 30, Ill.  
 Thor Power Tool Co., Prudential Bldg., Chicago, Ill.  
 Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

## GRINDERS, Valve Seat, Portable, Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
 Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
 Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.  
 Hall-Toledo Inc., 2931 South Ave., Toledo 9, Ohio.  
 Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
 Skill Corp., 5033 Elston Ave., Chicago 30, Ill.  
 Thor Power Tool Co., Prudential Bldg., Chicago, Ill.  
 United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.  
 Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

## GUARDS, Bumper

Brown-Lipe-Chapin, Div. General Motors Corp., Town Line Rd., Syracuse, N. Y.  
 Bumper Guard Co., 277 Washington Ave., Memphis, Tenn.  
 Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.  
 Chadwick, Inc., 7th St. & Keystone Ave., Darby, Pa.  
 Eaton Mfg. Co., Stamping Div., 17877 St. Clair Ave., Cleveland 10, Ohio.  
 Gen. Mfg. Co., 2525 S. State St., Chicago 16, Ill.  
 Globe Stamping Div., Hupp Corp., 1250 W. 76th St., Cleveland 2, Ohio.  
 Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.  
 Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.  
 Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.  
 Rheem Automotive Co., 601 S. Placentia Ave., Fullerton, Calif.  
 Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.  
 United Spring & Bumper Co., Div. Rheem Mfg. Co., 4961 Alcoa Ave., Los Angeles 58, Calif.  
 United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, N. Y. 20, N. Y.

## GUARDS, Radiator, Grille and Fender

American Forging & Socket Co., P. O. Box 123, Pontiac, Mich. (Radiator Grille.)  
 Bustin Steel Products, Inc., Dover, N. J. (Truck radiator.)  
 Calco Steel Products Co., 23-29 New England Ave., Boston 24, Mass. (Grille.)  
 Cello Products Co., 161 Prescott St., Boston 24, Mass.  
 Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Radiator grille to order.)  
 Glehnner Iron Works, Inc., Fred S., 1214-24th St., N. W., Washington 7, D. C.  
 Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.  
 Helms Industrial Development Co., West Lafayette, Ohio.  
 Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La.  
 Lincoln Metal Products Corp., 179 South St., Newark, N. J. (Radiator.)  
 Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.  
 Youngstown Kitchens, Div. of American-Standard, 605 S. Ellsworth St., Salem, Ohio. (Truck and tractor.)

## GUARDS, Splash

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)  
 American Mat Corp., 2327 Adams St., Toledo 2, Ohio.  
 Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio.  
 Bermo Industries, Inc., 216 W. 86th St., Minneapolis, Minn.  
 Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas 22, Tex. (Truck; Sole distributors, Monkey Grip Sales Co., 5370 Harry Hines Blvd., Dallas 2, Tex.)  
 Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.  
 Buxbaum Co., 1212 7 St., S.W., Canton 1, Ohio.  
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135-DKB	6	ACV	4 1/4 x5	426	328-1600	147	2800
148-DKB	6	ACV	5 1/4 x6	779	584-1000	200	2100
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190-GLB	6	A	3 3/4 x4	265	223-1200	77	2400
195-GKA	6	ACV	4 1/4 x4	320	244-1400	122	3000†
MZA	6	A	4 1/4 x4 3/4	404	289-1000	128	2800†
135-GKB	6	ACV	4 1/4 x5	426	337-1200	147	2800†
135-GZB	6	ACV	4 3/4 x5	451	354-1200	153	2800†
140-GKB	6	ACV	4 1/2 x5 1/2	525	426-800	177	2600†
140-GZB	6	ACV	4 3/4 x5 1/2	554	453-800	188	2600†
145-GKB	6	ACV	5 1/4 x6	779	594-1000	240	2400†
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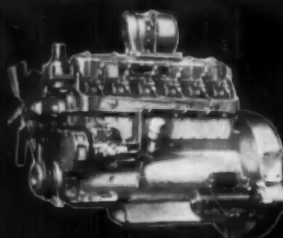
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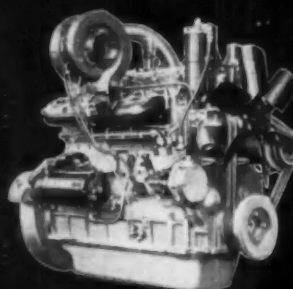
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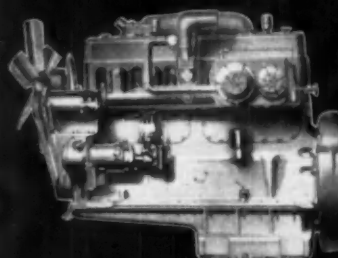
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Contour Truck Guards, Inc., First National Bank Bldg., 38 S. Dearborn St., Chicago 3, Ill.  
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.  
Dean Mfg. Corp., 1761 London Rd., Cleveland 12, Ohio.  
Fargo Rubber Corp., 137 E. 58 St., Los Angeles 11, Calif.  
Franklin Industries, Box 44, Acton, Ind.  
Gar Wood Industries, Wayne, Mich.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Globe Rubber Products Co., 3333 N. Lawrence St., Philadelphia 40, Pa.  
Goodrich Co., B. F., Industrial Prods. Div., 500 S. Main St., Akron 18, Ohio.  
Gross Mfg. Co., 1711 California St., Monrovia, Calif.  
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.  
Lee Rubber & Tire Corp., Conshohocken, Pa.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Randall Co., 5000 Spring Grove Ave., Cincinnati 32, Ohio.  
Regal Motor Products, Inc., 6324 Grand River Ave., Detroit 8, Mich.  
Rootar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.  
Tingley Rubber Corp., 903 Ross St., Rahway, N. J.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 16, Wis.

## GUARDS, Tire Inflating

Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.  
Branick Mfg. Co., Fargo, N. D.  
E-Z Lift Mfg. Co., Div. Brummeler Steel Products Corp., 1415 Ionia Ave., S. W., Grand Rapids, Mich.  
Kirsapel Industries, Inc., Livingston, N. J.

## GUIDES, Valve

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Aero Mfg. & Machinery Co., 2724 Ninth St., Muskegon Heights, Mich.  
Allied Motor Parts Co., Detroit 1, Mich.  
Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.  
American Auto Parts Co., 919 Bonham Ave., Columbus 3, Ohio.  
Beckett Bronze Co., 20th & S. Walnut Sts., Muncie, Ind. (Bronze).  
Burd Piston Ring Co., Box 567, Eau Claire, Wis.  
Elgin Machine Works, 412 N. State St., Elgin, Ill.  
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.  
Ertel Products Corp., Div. of Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.  
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
Rich Mfg. Corp., 96 N. Division St., Battle Creek, Mich.  
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
Standard Automotive Parts Co., 660 Nims St., Muskegon, Mich.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.  
Wolverine Gear & Parts Co., Osseo, Mich.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

## HAMMERS, Pneumatic

Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa.  
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.

Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.  
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio. (Portable).  
Mead Specialties Co., 4114 N. Knox Ave., Chicago 14, Ill.  
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.  
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.  
United Engrg. & Fdry. Co., Wilmington Plant, P. O. Box 1108, Wilmington 99, Del.  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.  
Williams, White & Co., 100 Eighth St., Moline, Ill.

## HAMMERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Millers Falls Co., Greenfield, Mass.  
Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.  
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.  
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.  
Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

## HARDWARE, Bus

Attwood Brass Works, Inc., 303 Douglas St., N.W., Grand Rapids, Mich.  
Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.  
Cleveland Hardware & Forging Co., 3270 E. 79th St., Cleveland 4, Ohio.  
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill.  
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Stanchions and grab rails).  
Tompkins, H. S., 188 Chambers St., New York 7, N. Y.  
Troy Sunshade Co., Troy, Ohio. (Stanchions and grab rails).  
Woodlin Metal Products Co., Marshall, Mich.

## HARDWARE, Truck Body

Adams & Westlake Co., 1019 N. Michigan St., Elkhart, Ind. (Auto, truck & bus).  
American Forging & Socket Co., P. O. Box 120, Pontiac, Mich. (Hood locks, etc.).  
Attwood Brass Works, Inc., 303 Douglas St., N.W., Grand Rapids, Mich. (Funeral car, taxicab and trailer).  
Atwood Vacuum Machine Co., 1400 Eddy Ave., Rockford, Ill. (Including locks & hinges).  
Auto Vehicle Parts Co., 1032 Saratoga St., Newport 6, Ky.  
Binkley Mfg. Co., Warrenton, Mo. (Hinges, brackets, etc.).  
Bordner Mfg. Co., 101 S. Louis Ave., Freeport, Ill. (Refrigerator truck).  
Bowen Products Corp., Auburn, N. Y.  
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill. (Hood locks).  
Cinch Mfg. Co., 1026 S. Homan St., Chicago 24, Ill.  
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.  
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill. (Door latches).  
Detroit Harvester Co. Dura Div., 4500 Detroit Ave., Toledo, Ohio.  
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.  
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Everts Ave., Cleveland 4, Ohio.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Excel Corp., 1120 N. Main St., Elkhart, Ind. (Bus sashes).  
Ferro Stamping Co., 1367 Franklin St., Detroit 7, Mich.  
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (Commercial body and bus).  
Hartwell Aviation Supply Co., 9035 Venice Blvd., Los Angeles 31, Calif.  
Jacob Co., F. L., 1043 Spruce St., Detroit 32, Mich.  
Kason Hardware Corp., 71 Wallabout St., Brooklyn 11, N. Y.  
Kneuer Tail Board Co., 45 Sea Girt Ave., Manasquan, N. J. (Spaceless tailboard hardware).  
Lansing Drop Forge Co., 2807 S. Logan St., Lansing, Mich.

Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.  
Miner, Inc., W. H., 209 S. La Salle St., Chicago 4, Ill. (Door fastener for truck and trailer bodies).  
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill. (Fuel tank fittings).  
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.  
Rockford Metal Products, Inc., 716 Cedar St., Rockford, Ill.  
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces).  
Soss Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.  
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.  
Standard-Thomson Corp., Vandalia, Ohio. (Also hearse and ambulance).  
Stanley Works (Pressed Metal Div.), 195 Lake St., New Britain, Conn.  
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.  
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.  
Tompkins, H. S., 188 Chambers St., New York 7, N. Y.  
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Truck body irons, brackets and hinges).  
Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.

## HEADLIGHT FOCUSING INSTRUMENTS, See Testers, Headlight

## HEATERS, Bus

Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind. (Hot water and hot air).  
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. (Hot water).  
Evans Products Co., Heating and Ventilating Div., 13101 Eckles Rd., Plymouth, Mich. (Hot water).  
Ha Dees Heater Div. of Gabriel Co., 1011 Harrison Ave., Rockford, Ill. (Hot water).  
Hunter Mfg. Co., 30525 Aurora Rd., Salon, Ohio.  
Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water).  
Surface Combustion Corp., Janitrol Aircraft-Automotive Div., 400 Dublin Ave., Columbus, Ohio.  
Thermo King Corp., 314 W. 90th St., Minneapolis 23, Minn.  
Truck & Coach Heater Mfg. Co., 2465 W. Davison, Detroit 38, Mich.  
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill.

## HEATERS, Cargo

American Gas Machine Co. Div. of Queen Stove Works, 505 Front St., Albert Lea, Minn. (Automatic bottled gas, for trucks and buses).  
Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md.  
Auto Body Works, Pierce Ave. & 8th St., Appleton, Wis. (Exhaust).  
Cargo Gas, Inc., P. O. Box 1977, Thompson's Point, Portland 2, Me. (LP-Gas).  
Elston Co., Rue R., 2397 University Ave., St. Paul 14, Minn. (LP gas). (Manufactured by Crenlo, Inc., Rochester, Minn.).  
Evans Products Co., Heating and Ventilating Div., 13101 Eckles Rd., Plymouth, Mich.  
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. (Self-powered unit for trailers).  
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Hot water and gasoline).  
Knowles-Fisher Corp., Gowanda, N. Y. (Charcoal burning).  
Laharco Industries, Inc., 721 Second Ave., N., Minneapolis 3, Minn.  
Luminator, Inc., 120 N. Peoria St., Chicago 80, Ill.  
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. (Gasoline burning).  
Thermo King Corp., 44 S. 12th St., Minneapolis 3, Minn.  
Truck & Coach Heater Mfg. Co., 2465 W. Davison, Detroit 38, Mich.  
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill.



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It's easy to own these genuine *Snap-on Tools*

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**MECHANIC'S STANDARD  
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A big, 164-pc timesaving kit of tools. A basic set for every mechanic.

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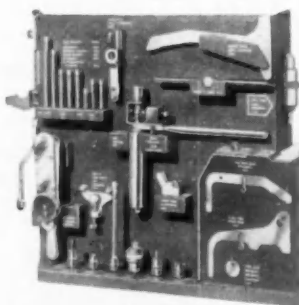
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PAYMENTS**



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72-pc set of useful handles and various sockets to speed many jobs.  $\frac{3}{8}$ -in. square drive.

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Handles most transmission jobs, quickly and surely. Pays for itself in a short time.

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Big, roomy, portable storage cabinet to take Snap-on tools right to the job.

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All the units you need for efficient valve grinding. Re-surfaces hard to soft valve seats accurate and fast.

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CORPORATION**

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# heaters to hones

CCJ's Product Directory

## HEATERS, Engine Pre-Heating

Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Parking lot heater.)  
Five Star Mfg. Co., Box 149, Clarksdale, Miss. (Electric.)  
Kim Hotstart Mfg. Co., 917 W. Broadway, Spokane 1, Wash. (Electric.)  
Laharco Industries, Inc., 721 Second Ave., N., Minneapolis 5, Minn.  
Perfection Industries, Inc., Div. of Hupp Corp., 1135 Ivanhoe Rd., Cleveland 10, Ohio.  
Phillips Mfg. Co., 2816 Aldrich Ave. S., Minneapolis 8, Minn. (Headbolt, hose and dipstick and external tank types.)  
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind.  
Tech Products, Inc., 615 Pennsylvania Ave., Elizabeth, N. J.  
Vapor Heating Corp., 80 E. Jackson Boulevard, Chicago 4, Ill. (Parking lot heater.)

## HEATERS, Paint, Hot Spray

Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.  
Bede Products Corp., Jackson St., Amherst, Ohio.  
Binks Mfg. Co., 314 Carroll Ave., Chicago 12, Ill.  
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.  
Dualheat, Inc., 3350 W. 137th St., Cleveland 11, Ohio.  
Pol-Flo Paint Sprayer Corp., 1412-16th St., Sacramento, Calif.  
Spec-Flo Mfg. Corp., 720 Polk Ave., Houston 2, Tex.  
Thermalcup, Inc., 3550 W. 137th St., Cleveland 11, Ohio.

## HEATERS, Truck Cab

Arvin Industries, Inc., 13th St. & Big Four R.R., Columbus, Ind. (Hot water.)  
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.  
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave. N.E., Cleveland 14, Ohio. (Hot water.)  
Burd Piston Ring Co., HaDees Heater Div., 10th St. & 23rd Ave., Rockford, Ill.  
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)  
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio. (Hot water.)  
Evans Products Co., Heating & Ventilating Div., 13101 Eckles Rd., Plymouth, Mich. (Hot water.)  
HaDees Heater Div., Gabriel Co., Rockford, Ill.  
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y. (Hot water.)  
Hunter Mfg. Co., 30525 Aurora Rd., Salon, Ohio. (Hot water.)  
Kysor Heater Co., Haynes St., Cadillac, Mich. (Hot water.)  
Novi Equipment Co., Novi, Mich. (Hot water.)  
Schofield, Inc., E. L., 2230 Seventh Ave., Rockford, Ill. (Hot water.)  
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. (Gasoline burning.)  
Surface Combustion Corp., Janitrol Aircraft-Automotive Div., 400 Dublin Ave., Columbus, Ohio.  
Truck & Coach Heater Mfg. Co., 2465 W. Davison, Detroit 28, Mich. (Hot water for trucks & buses.)

**HILL HOLDERS, See Locks, Brake, Hill Holding**  
**HITCHES, TRAILER, See Couplers, Trailer**

## HOISTS, Chain or Cable

(See also Cranes, Portable)  
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.  
Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y.  
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.  
Coffing Hoist Div., Duff-Norton Co., 800 Walter St., Danville, Ill.  
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.  
Harrington Co., Gravers Rd. at Turnpike, Plymouth Meeting, Pa.  
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.

Lincoln Precision Machining Co., North Grafton, Mass.  
Manley Div., American Chain & Cable Co., York, Pa.  
Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.  
Ohio Hoist & Mfg. Co., 13111 Shaker Sq., Cleveland 20, Ohio.  
National Screw & Mfg. Co., Chester Hoist Div., Lisbon, Ohio.  
Reading Crane & Hoist Corp., 2140 Adams St., Reading, Pa.  
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio.  
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.  
Round & Son, David, Box 883, Cleveland 22, Ohio.  
Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa.  
Union Mfg. Co., 296 Church St., New Britain, Conn.  
Wright Hoist Div. of American Chain & Cable Co., York, Pa.  
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

## HOISTS, Electric

(See also Blocks or Hoists, Chain)  
American Engineering Co., 2447 Aramingo Ave., Philadelphia 25, Pa.  
Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.  
Chester Hoist Div., National Screw & Mfg. Co., Lisbon, Ohio.  
Chisholm-Moore Hoist (Div. Columbus McKinnon Chain Corp.) Fremont Ave., Tonawanda, N. Y.  
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.  
Coffing Hoist Div., Duff-Norton Co., 800 Walter St., Danville, Ill.  
Conco Engineering Works, Div. of H. D. Conkey & Co., Mendota, Ill.  
Detroit Hoist & Machine Co., 8216 Morrow St., Detroit 11, Mich.  
Electro Lift, Inc., 204 Sergeant Ave., Clifton, N. J.  
Ford Chain Block Div. of American Chain & Cable Co., Bridgeport, Conn.  
Harnischfeger Corp., Industrial Div., Dept. 209 L., Milwaukee 46, Wis.  
Harrington Co., Gravers Rd. at Turnpike, Plymouth Meeting, Pa.  
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.  
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.  
Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.  
Northern Engineering Works, 210 Chene St., Detroit 7, Mich.  
Ohio Hoist & Mfg. Co., 3218 S. Beaver St., Lisbon, Ohio.  
Reading Crane & Hoist Corp., 2140 Adams St., Reading, Pa.  
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio.  
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.  
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y.  
Thomas Hoist Co., 20 S. Hoyne Ave., Chicago 12, Ill.  
Wright Hoist Div. of American Chain & Cable Co., York, Pa.  
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

**HOISTS, MONORAIL, See Cranes, Monorail**

## HOISTS, Pneumatic

Aro Equipment Corp., Bryon, Ohio.  
Curtis Mfg. Co., Pneumatic Div., 1927 Keinlen Ave., St. Louis 20, Mo.  
Detroit Hoist & Machine Co., 8216 Morrow St., Detroit 11, Mich.  
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Kehawke Mfg. Co., 718 S. Elliot St., Muncie, Ind. (For tire shops.)  
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.  
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.

Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

**HOISTS, PORTABLE, See Cranes, Portable**

## HOISTS, Truck Body

Anthony Co., Streator, Ill. (Hydraulic.)  
Cemco Industries, Inc., Gallion, Ohio.  
Converto Mfg. Co., 3rd & Green Sts., Cambridge City, Ind.  
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.  
Cresci & Son, Inc., Boulevard & Grape Sts., Vinceland, N. J.  
Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.  
Gar Wood Industries, Inc., Wayne, Mich.  
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.  
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis. (Hydraulic.)  
Hercules Gallion Products, Inc., Gallion, Ohio.  
Ingersoll Kalamazoo Div. Borg-Warner Corp., 1810 N. Fitcher St., Kalamazoo, Mich.  
Little Giant Products, Inc., 1530 N. Adams St., Peoria 2, Ill. (Hands.)  
Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
Manning, Maxwell & Moore, Inc., Shaw Box Crane & Hoist Div., Park & Broadway, Muskegon, Mich.  
Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Hydraulic.)  
Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa. (Hydraulic.)  
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn. Pa.  
Perfection Steel Body Co., S. East St., Gallion, Ohio. (Hydraulic.)  
Schwartz Mfg. Co., Lester Prairie, Minn. (Also ramp hoist.)  
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.  
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.  
Wiseonsin Hydraulics Inc., 3165 N. 30th St., Milwaukee 16, Wis.

**HOISTS, VEHICLE LIFTING, See Lifts, Vehicle**

## HOLDERS, Air Brake Hose

Columbus Industries, P. O. Box 362, Columbus, Ind. (Power brake-trailers.)  
Edward's Air Hose Bracket Co., P. O. Box 860, Sapulpa, Okla.  
Vari-Products Company, 2450 S. Prairie Ave., Chicago 16, Ill.

## HOLDERS, Electrode

Chicago Tool & Engrg. Co., 8383 S. Chicago Ave., Chicago, Ill.  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.  
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.  
Mallory & Co., P. R., 3025 E. Washington St., Indianapolis 6, Ind. (Resistance.)  
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.  
Miller Electric Mfg. Co., 218 S. Bounds St., Appleton, Wis.  
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.  
Tweco Products Co., Boston at Moalee St., Wichita 1, Kan.  
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.  
W. W. Alloys, Inc. (Div. Fansteel Metallurgical Corp.) 11644 Cloverdale Ave., Detroit 4, Mich.

**HOLDERS, LOAD, See Load Binders**

## HONES, Cylinder

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.)  
Barnes Drill Co., 826 Chestnut St., Rockford, Ill.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake drum.)  
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Ft. Morgan, Colo.  
Hall-Toledo Inc., 2931 S. Avenue, Toledo 9, Ohio.  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Micromatic Hone Corp., 8100 Schoolcraft Ave., Detroit 38, Mich.



## New B&D No. 300 Impact Wrench treats trucks like toys!



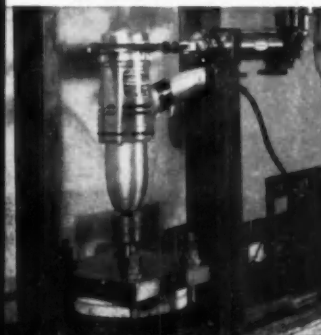
**MORE POWER PER POUND:** This light-weight (only 13 lbs.) high torque tool packs a powerful punch! Equal power in both directions.

**LONGER LIFE!** Torture tests show it has higher performance, cooler running, longer life than competition.



**EASIER HANDLING:** Pistol grip positioned to eliminate nose or tail heaviness. No starting torque twist. All-position auxiliary handle.

**No. 100 IMPACT WRENCH:** Ideal companion to the No. 300 for smaller applications. Both tools in your kit cover most bolt sizes.



**See it pour on brute power  
for yourself . . . mail coupon today!**

Stop breaking your back trying to budge stubborn truck lugs! Mail the coupon today for a demonstration of how the new B&D No. 300 Heavy-Duty Impact Wrench brings more than 300 big ft. lbs. of torque to bear—spins rusted, dirt-encrusted lugs out in a breeze!

See why this new tool is really *power*-built! Patented armature construction; precision machined, heat-treated impactor and anvil; heavy-duty ball bearings throughout—this impact wrench is really tough, really durable. And it's fully reversible.

For a free demonstration or additional information mail coupon to: **THE BLACK & DECKER MFG. CO.**, Dept. 5411, Towson 4, Md. (In Canada: P. O. Box 278, Brockville, Ontario).



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Quality Electric Tools—Power-Built to set the pace

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☐ Send additional information.

Name ..... Title .....  
Company .....  
Address .....  
City ..... Zone ..... State .....



# hones to hose

CCJ's Product Directory

## HONES—continued

Moline Tool Co., 102 20th St., Moline, Ill.  
Snap-on Tools Corp., 8046 28th Ave., Kenosha, Wis. (Brake.)  
Staple Engrg. Co., 1815 S. Woodward Ave., Birmingham, Mich.  
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.  
Supco Div. Lisle Corp., 805 E. Main St., Clarinda, Iowa. (Brake.)  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
Van Norman Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.  
Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.)  
Wilson, Inc., K. R., Arcade, N. Y.

## HONES, Small Bore

(For piston pins, brake cylinders, bushings, etc.)

Ammeo Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
Beard Tool Co., L. O. Andrew & Mill Sta., Lancaster, Pa. (Brake cylinder, piston pin and ring pin bushings.)  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Brake cylinder.)  
Dow Mechanical Corp., Thompsonville, Conn.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. (Brake cylinder.)  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich. (Piston pin.)  
Keystone Reamer & Tool Co., Millersburg, Pa. (Piston pin.)  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Brake cylinder and piston pin.)  
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn. (Brake cylinder.)  
Precision Hone Co., 5618 Dearborn St., Detroit 17, Mich. (Piston pin, brake cylinder, bushing, etc.)  
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Piston pin.)  
Staple Engineering Co., 1815 S. Woodward Ave., Birmingham, Mich.  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Piston pin.)  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

## HOOKE, Towing

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.  
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.  
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.  
Holland Hitch Co., 430 W. 18th St., Holland, Mich.

HORN RELAYS, See Relays, Horn and Light

## HORNS, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
Buell Mfg. Co., 919 W. 49th Pl., Chicago 9, Ill.  
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.  
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.  
Kahlenberg Bros. Co., 1200 Monroe St., Two Rivers, Wis.  
Sparton Automotive Div. of Sparton Corp., Jackson, Mich.  
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.

## HORNS, Electric

Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.  
Edwards Co., Norwalk, Conn.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Jubilee Mfg. Co., 1929 S. 29th St., Omaha 9, Neb.  
Sparton Automotive Div., Sparton Corp., Jackson, Mich.

Yoder Mfg. Co., 1823 E. 17th St., Little Rock, Ark. (Wolf.)

## HORNS, Siren

(For ambulances, police and fire department apparatus)

American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.  
Federal Sign & Signal Corp., 8765 S. State St., Chicago, Ill.  
Pyle-National Co., 1334 N. Kastner Ave., Chicago 51, Ill.  
Sireno Co., 214 William St., N. Y. 7, N. Y.  
Sterling Siren Fire Alarm Co., 8 Bartlett St., Rochester 8, N. Y. (Electric.)

## HORNS, Vacuum Operated

Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.  
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.  
Yoder Mfg. Co., 1823 E. 17th St., Little Rock, Ark. (Wolf, bulb type.)

HORSES and TRESTLES, See Stands, Adjustable

## HOSE, Air Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.  
Aerquip Corp., 300 S. East Ave., Jackson, Mich.  
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.  
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)  
Crown Products Co., 5722 S. 77th St., Ralston, Neb.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Grey-Rock Div. of Raybestos-Manhattan, Inc., Mannheim, Pa.  
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.  
Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.  
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.  
Strataflex, Inc., 220 Roberts St., Cut-off, Fort Worth, Tex.  
Thermoid Co., Heavy Duty Div., Whitehead Rd., Trenton 6, N. J.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

## HOSE, Air, Tire Inflating, Rubber and Fabric

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.  
Aerquip Corp., 300 S. East Ave., Jackson, Mich.  
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.  
Balscrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.  
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)  
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.  
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Crown Products Co., 5722 S. 77th St., Ralston, Neb.  
Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Tex.  
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.  
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.  
Diamond Rubber Co., Div. of B. F. Goodrich Co., 600 S. Main St., Akron 3, Ohio.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.

Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.  
Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.  
Hite Mfg. Co., 1916 Dayton Blvd., North Chattanooga 5, Tenn.  
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.  
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 600 S. Main St., Akron, Ohio.  
Peters & Russell Inc., 501 W. Liberty St., Springfield 99, Ohio.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.  
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
Ridbo Laboratories, Inc., 211 E. Harrison St., Danville, Ill.  
Swan Rubber Co., 486 E. Mansfield St., Bucyrus, Ohio.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

## HOSE, Gasoline

(See also Tubing, Gasoline & Oil Line)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.  
Aerquip Corp., 300 S. East Ave., Jackson, Mich.  
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.  
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y. (Synthetic rubber.)  
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Electric Hose & Rubber Co., 12th & Dure Sts., Wilmington, Del.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Goodrich Co., Industrial Prods., B. F., 500 S. Main St., Akron, Ohio.  
Hewitt-Robins, Inc., 666 Glenbrook Road, Stamford, Conn.  
Metal Hose & Tubing Co., W. Clinton St., Dover, N. J.  
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.  
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.  
Republic Rubber, Div. of Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.  
Resistoflex Corp., Woodland Rd., Roseland, N. Y.  
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.  
Titeflex, Inc., Hendee St., Springfield 4, Mass.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

## HOSE, Grease, High Pressure

Adams Grease Gun Corp., 88-92 N. First St., Brooklyn 11, N. Y.  
Aerquip Corp., 300 S. East Ave., Jackson, Mich.  
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.  
Atlantic Metal Hose Co., 107 W. 64th St., New York 23, N. Y.  
Balscrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.  
Eastman Mfg. Co., 1440 N. 24th St., Manitowoc, Wis.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.  
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.



# Cushioned<sup>®</sup> Power IS SMOOTHER POWER



**Continental TD-6427**  
Cushioned Power Diesel

TRANSPORTATION DIESEL ENGINES					
Model	Cyl.	Bore	Stroke	Displ.	Bare Engine H.P.
TD6427	6	4 1/16	4 1/2	427	116.0 @ 2400 RPM
RD6572	6	4 1/4	5 1/2	572	172.0 @ 2400 RPM
VD8603	8	4 1/4	4 1/4	603	182.0 @ 2800 RPM
SD6802	6	5 1/16	5 1/2	802	225.0 @ 2200 RPM

TRANSPORTATION GASOLINE ENGINES					
Model	Cyl.	Bore	Stroke	Displ.	Bare Engine H.P.
N4062	4	2 1/8	3 1/2	62	26.3 @ 3500 RPM
Y4069	4	2 1/2	3 1/2	69	28.0 @ 3500 RPM
Y4091	4	2 3/8	3 1/2	91	36.0 @ 3400 RPM
F4124	4	3	4 1/8	124	47.0 @ 3200 RPM
F4140	4	3 1/16	4 3/8	140	52.0 @ 3200 RPM
F4162	4	3 1/16	4 3/8	162	58.0 @ 3200 RPM
F6186	6	3	4 3/8	186	77.0 @ 3500 RPM
F6209	6	3 1/16	4 3/8	209	90.0 @ 3500 RPM
F6226	6	3 1/16	4 3/8	226	98.8 @ 3500 RPM
F6244	6	3 1/16	4 3/8	244	105.0 @ 3750 RPM
M6271	6	3 3/8	4 3/8	271	96.5 @ 3000 RPM
M6290	6	3 3/8	4 3/8	290	108.0 @ 3000 RPM
M6330	6	4	4 3/8	330	125.0 @ 3000 RPM
M6363	6	4	4 13/16	363	146.0 @ 3000 RPM
B6371	6	4 1/8	4 3/8	371	123.5 @ 3000 RPM
B6427	6	4 1/8	4 3/8	427	142.0 @ 3000 RPM
K6271	6	3 3/8	4 3/8	271	114.5 @ 3200 RPM
K6290	6	3 3/8	4 3/8	290	123.0 @ 3200 RPM
K6330	6	4	4 3/8	330	147.0 @ 3200 RPM
K6363	6	4	4 13/16	363	162.0 @ 3200 RPM
T6371	6	4 1/8	4 3/8	371	143.8 @ 3000 RPM
T6427	6	4 1/8	4 3/8	427	170.0 @ 3000 RPM
U6501	6	4 1/2	5 1/4	501	178.0 @ 2600 RPM
R6513	6	4 1/2	5 1/4	513	192.2 @ 2800 RPM
R6572	6	4 3/4	5 1/4	572	220.0 @ 2800 RPM
R6602	6	4 3/4	5 1/4	602	232.0 @ 2800 RPM
S6749	6	5 1/8	5 1/2	749	250.0 @ 2800 RPM
S6820	6	5 1/8	5 1/2	820	275.0 @ 2800 RPM
V8603	8	4 3/4	4 3/4	603	240.0 @ 3200 RPM

A tip from fleet operators who have switched to Continental Diesel: When you're ready to "go Diesel," it pays, in more ways than just initial cost, to go the whole distance and get exclusive Red Seal Cushioned Power. In that way, you obtain fullest measure of ALL the advantages identified with engines of Diesel type. You use less fuel than with conventional Diesels. You have more cargo capacity because you're lugging less engine weight. And the wide interchangeability of parts between Cushioned Power Diesels and companion models in the Red Seal gasoline engine line expedites maintenance and sharply reduces parts cost.

**AUTHORIZED SERVICE**  
and genuine Red Seal parts available from  
coast to coast.



***Continental Motors Corporation***  
MUSKEGON, MICHIGAN

WORLD'S LEADING INDEPENDENT MANUFACTURER OF INTERNAL COMBUSTION ENGINES, CONTINENTAL MOTORS OPERATES PLANTS IN ATLANTA, DALLAS, DETROIT, MILWAUKEE, MUSKEGON, AND TOLEDO, AND IN ST. THOMAS, ONT., PRODUCING AIR-COOLED AND LIQUID-COOLED ENGINES FOR USE ON LAND, AT SEA AND IN THE AIR.

# hose to hubs

CCJ's Product Directory

## HOSE—continued

Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Reda-Turner Mfg. Co., 311 Page Blvd., Springfield 4, Mass.  
Republic Rubber Div., Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.  
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.  
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

## HOSE, Heater

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)  
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Crown Products Co., P. O. Box 1046, Omaha, Neb.  
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.  
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.  
Holfast Rubber Co., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.  
Miller Rubber Co., Div. B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.  
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.  
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.

## HOSE, Hydraulic Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)  
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.  
Anchor Coupling Co., 342 N. 4th St., Libertyville, Ill.  
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.  
Chefford Master Mfg. Co., Fairfield, Ill.  
Eis Automotive Corp., Middletown, Conn.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.  
Exello Accessories Mfrs. Inc., 81 Madison Ave., Hempstead, N. Y.  
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.  
Flex-O-Tube, Div. Flexonics Corp., 2525 S. Jim Daly Rd., Inkster, Mich.  
Goodrich Co., Industrial Prods. Div., B. F., 500 S. Main St., Akron 18, Ohio.  
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.  
Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.  
Motive Equipment Mfrs., Inc., 5253 Roosevelt Rd., Chicago 50, Ill.  
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.  
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.  
Preferred Electric & Wire Co., Bush Terminal Bldg. #38, Brooklyn 32, N. Y.  
Raybestos-Manhattan, Inc., Equip. Sales Div., 75 E. Main St., Stratford, Conn.  
Stratoflex, Inc., 220 Roberts St. Cut-Off, Ft. Worth, Texas.

Supco Div., Lisle Corp., 805 E. Main St., Clarinda, Iowa.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Booster.)  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

## HOSE, Radiator

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)  
Anchor Packing Co., 401 N. Broad St., Philadelphia 5, Pa.  
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. (Flexible and molded.)  
Badger Tool Mfg. Co., 1501 W. Polk St., Chicago 7, Ill. (Chrome.)  
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.  
Crown Products Co., 5722 S. 77th St., Ralston, Neb.  
Crushproof Tubing Co., 312 Park Blvd., Cleveland 14, Ohio.  
Dallas Mfg. & Sales Co., P. O. Box 7181, Dallas, Tex.  
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.  
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.  
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. (Flexible.)  
Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Bendable.)  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Goodrich Co. Industrial Prods. Div., B. F., 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.  
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.  
Haywood Industries, P. O. Box 1004, Dayton 1, Ohio.  
Johns-Manville, 22 E. 40th St., New York, N. Y.  
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.  
Mercer Rubber Co., Hamilton Square, N. J.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Moore & Co., Samuel, Mantus, Ohio.  
Ohio Rubber Co., 300 Ben Hur Ave., Wiloughby, Ohio.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.  
Raybestos Div. of Raybestos-Manhattan, Inc., Bridgeport, Conn.  
Raybestos-Manhattan, Inc., Equip. Sales Div., Bridgeport, Conn.  
Ridbo Laboratories, Inc., 211 E. Harrison St., Danville, Ill.  
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.  
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

## HOSE, Refrigerator

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.

## HOSE, Vacuum Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.  
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.  
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Dallas Mfg. & Sales Co., Box 7181, Dallas, Tex.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Haywood Indus., P. O. Box 1004, Dayton 1, Ohio.  
Hewitt-Robbins, Inc., 666 Glenbrook Rd., Stamford, Conn.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.  
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
Thermoid Co., Heavy Duty Div., Whitehead Rd., Trenton 6, N. J.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.

## HOSE, Welding

(See also Cable, Welding)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. (Also 3320 S. Main St., Los Angeles 7, Calif.)  
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.  
Air Reduction Sales Co., Socony-Mobil Bldg., 550 E. 42nd St., New York 17, N. Y.  
Boston Woven Hose & Rubber Co., 29 Hampshire St., Cambridge, Mass. (P. O. Box 1071, Boston 3, Mass.)  
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.  
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood, Cincinnati 12, Ohio.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Goodrich Co., Industrial Products Div., B. F., 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.  
Haywood Indus., P. O. Box 1004, Dayton 1, Ohio.  
Hewitt-Robbins, Inc., 666 Glenbrook Rd., Stamford, Conn.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.  
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. (Oxy-acetylene.)  
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.  
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford 2, Conn.  
Republic Rubber, Div. of Lee Rubber & Tire Corp., Albert St., Youngstown 1, Ohio.  
Smith Welding Equipment Corp., 2633 Fourth St. S.E., Minneapolis 14, Minn.  
Snyder & Son, Inc., M. L., 1827 E. York St., Philadelphia 25, Pa.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

## HUBS, Wheel

Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.  
Dittmer Gear & Mfg. Co., 193 Grand St., Lockport, N. Y.  
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (For truck trailers.)  
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich.  
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich.  
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.

HYDRAULIC FLUID, See Fluid, Hydraulic Brake and Shock Absorber

*If it moves...*

# Timken-Detroit Brakes can stop it!



**New lightweight** ... Fabricated steel brake shoes weigh many pounds less than cast shoes. Binding or freezing up is eliminated because double web construction permits limited area fit with one piece cam rollers. Wear areas of the webs are heat treated for long life.

**Unit-mounted** ... All brake parts are mounted on the spider for compactness. Efficiency is higher and correct cam shaft alignment is assured with close coupled cam shaft and chamber bracket.\*

## "P" SERIES POWER BRAKES

designed for heavy-duty automotive service

Here is a brake that gives longer, trouble-free service for trucks, trailers, and all types of industrial and road equipment. These heavy-duty "P" Series Brakes are easy to maintain in service. Simplicity of design is the keynote - with brake, air chamber, and cam shaft all mounted as a unit.

The outstanding features of the Timken-Detroit "P" Series Brakes give increased economy and performance. Operating temperatures are lower and lining life longer because open-type spiders assure good internal ventilation and rapid cooling. Timken-Detroit

"Econo-liners" are tapered to provide greatest thickness where greatest lining wear occurs.

A constant-life "S" type cam assures uniform application of brake shoes for maximum control and immediate response. Brake adjustments are quick with easily accessible slack-adjusters. Long wearing nylon bushings assure smooth operation with minimum maintenance.

"P" Series Power Brakes are available in a complete range of capacities and sizes to fit every operating requirement.

\*"P" Series Brakes are also available with inboard chamber mounting for special applications.

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*Another Product of...*

**Rockwell Spring  
and Axle Co.**

For every industrial, agricultural or automotive  
application where braking is required!



**BRAKE DIVISION**  
Ashtabula, Ohio

# hydrometers to insulation

CCJ's Product Directory

## HYDROMETERS, Battery and Coolant

Beck Glass Blowing Co., 4-6 Court House Pl., Newark 2, N. J.  
Bishman Mfg. Co., Osseo, Minn. (Hand.)  
Chaslyn Co., 1952 Irving Park Rd., Chicago 13, Ill.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.  
Fras Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa.  
General Scientific Equipment Co., 7516 Limekiln Pike Philadelphia 50, Pa.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Kennedy Service Tools Co., P. O. Box 31, Mogadore, Ohio.  
Kimble Glass Co., P. O. Box 1035, Toledo 1, Ohio. (Sole distributors, Imperial Glass Mfg. Co., 1200 W. Harrison St., Chicago 7, Ill.)  
Kocour Co., 4809 S. St. Louis Ave., Chicago 32, Ill.  
Murray Corp., E. Joppa Rd., Towson 4, Md.  
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa.  
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.  
Taylor Instrument Companies, 95 Ames St., Rochester 1, N. Y.  
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.  
Weidenhoff Corp., Algona, Iowa.  
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.  
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.

IGNITION SPRAY, See Insulation, Electrical Parts, Liquid

IGNITION TOOLS, See Tools, Ignition

## INDICATORS, Carbon Monoxide

Cambridge Instrument Co., Inc., Grand Central Terminal, New York 17, N. Y.  
Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh 8, Pa.

INDICATORS, LOW BRAKE FLUID, See Signals, Low Brake Fluid

## INJECTION SYSTEMS, Gasoline & Diesel Engine

American Bosch Div., American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass. (Diesel pumps.)  
CAV Fuel Injection Equipment, Div. of Lucas Electrical Services, Inc., 14820 Detroit Ave., Cleveland, Ohio.  
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave., S.W., Grand Rapids 2, Mich.  
Flint Corp., 1323 N. Water St., Milwaukee 2, Wis. (Air and water injectors.)  
Hancock Diesel Service Co., 300 Walnut St., Findlay, Ohio. (Diesel reconditioning service.)  
Hartford Machine Screw Co., P. O. Box 1440, Hartford 2, Conn. (Diesel.)  
Micro-Precision Div., Micromatic Hone Corp., 2205 Lee St., Evanston, Ill. (Diesel.)  
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sydney, N. Y. (Diesel.)  
Simmonds Aerocessories, Inc., 105 White Plains Rd., Tarrytown, N. Y. (Gasoline.)  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

## INJECTORS, Water, Gasoline Engine

American Octanator Corp., 549 Reservoir Ave., Cranston, R. I.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Wag Enterprises, 3110 Broadview Rd., Cleveland 9, Ohio.

## INSPECTION SYSTEM PARTS

Magnaflux Corp., 5908 Northwest Highway, Chicago 31, Ill.

## INSTRUMENTS, Battery Testing

(See also Hydrometers)  
Associated Equipment Corp., 5147 Natural Bridge, St. Louis 16, Mo.

Auto Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill.  
Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo.  
Christie Electric Corp., 3410 W. 67th St., Los Angeles 43, Calif.  
Continental Bearings Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Electric Storage Battery Co., 42 S. 15th St., Philadelphia 2, Pa.  
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.  
General Scientific Equip. Co., 7516 Lime Kiln Pike, Philadelphia 50, Pa.  
Gould-National Batteries, Inc., E-1201 First National Bldg., St. Paul 1, Minn.  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Hoyer Industries, Inc., 471 Cortlandt St., Belleville, N. J.  
Hoyt Electrical Instrument Works, 42 Carleton St., Cambridge 32, Mass. (Sole distributors, Burton-Rogers Co., 42 Carleton St., bridge 42, Mass.)  
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 8, Ohio.  
Marquette Mfg. Co., Inc., 307 E. Hennepin Ave., Minneapolis 14, Minn.  
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo.  
Powercraft Corp., 2502 S. Wabash Ave., Chicago 13, Ill.  
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Triple A Specialty Co., 2101 Walnut St., Chicago 12, Ill.  
Tungsten Mfg. Co., 1923 E. 79th St., Chicago 49, Ill.  
Weidenhoff Corp., Algona, Iowa.  
Willard Storage Battery Div., Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.  
Wilson, Inc., K. R., Arcade, N. Y.

## INSTRUMENTS, Distributor Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Kal-Equip. Co., Box 567, Kalamazoo, Mich.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 8, Ohio.  
Motorade Corp., 2400 Emerald St., Phila. 26, Pa.  
Price Instrument Engineering Co., Inc., Newport News, Va. (Manometer.)  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Weidenhoff Corp., Algona, Iowa.  
Wells Mfg. Co., 200 W. Division St., Fond du Lac, Wis.

## INSTRUMENTS, Electrical Circuit Testing

(See also Analyzers, Trouble)  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass.  
Auto-Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill.  
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.  
Bristol Co., Waterbury 20, Conn.  
Crumbly Mfg. Co., 3830 N. Podlin Dr., Franklin Pk., Ill.  
Electro Products Co., 4456 E. 189th St., New York 58, N. Y.  
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill. (Sole distributors, Speedex Mfg. Co., 919 Taylor Ave., Rockford, Ill.)  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Hoyt Electrical Instrument Works, 42 Carleton St., Cambridge 32, Mass. (Sole distributors, Burton-Rogers Co., 42 Carleton St., Cambridge 42, Mass.)  
Ideal Industries, Inc., 1014 Park Ave., Syracuse, Ill.

International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 6, Ill. (For voltage regulators and generators, armatures and field coils.)  
Kal-Equip Co., Box 567, Kalamazoo, Mich.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 8, Ohio.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.  
Mercury Electric Corp., 719 Wyandotte St., Kansas City, Mo.  
Motorade Corp., 2400 Emerald St., Phila. 26, Pa.  
Newman Machine Co., 38 James St. E., Providence, R. I.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Practical Devices, Inc., 103 Lafayette St., New York 13, N. Y.  
Rectifier Engrg. Co., 1803 E. 7th St., Los Angeles 21, Calif.  
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmoyne, Ohio.  
Snap-On Tools Corp., 6046 28th Ave., Kenosha, Wis.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 8, Mo.  
Triple-A Specialty Co., 2101 Walnut St., Chicago 12, Ill.  
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 22, Pa.  
Weidenhoff Corp., Algona, Iowa.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.  
Wilson, Inc., K. R., Arcade, N. Y.  
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Armature testers.)

## INSTRUMENTS, Engine Testing

Allen Electric & Equip. Co., 2101 N. Pitcher St., Kalamazoo 13, Mich.  
Bacharach Industrial Instrument Co., 7099 Bennett St., Pittsburgh 8, Pa.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Rinck-McLwaine, Inc., 16 Hudson St., N. Y. 13, N. Y.  
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Weidenhoff Corp., Algona, Iowa.  
Wilson, Inc., K. R., Arcade, N. Y.

## INSTRUMENTS, Pressure Testing, Cooling System

Spotrim Corp., 15301 Mack Ave., Detroit 24, Mich.

## INSTRUMENTS, Strain Testing

Magnaflux Corp., 7300 W. Lawrence Ave., Chicago 31, Ill.

## INSULATION, Electrical Parts, Liquid

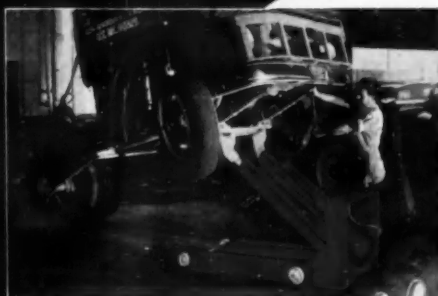
American Latex Products Corp., 3341 W. El Segundo Blvd., Hawthorne, Calif.  
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.  
Boruski, Jr., Ernest F., 7104 Alvern St., Los Angeles 45, Calif.  
Champion Bronze Powder & Paint Co., Inc., 2526 W. Van Buren St., Chicago 12, Ill.  
Champion Cable Co., 1805 E. 40th St., Cleveland 8, Ohio.  
Chemical Prods. Corp., King Philip Rd., East Providence, R. I. (Ignition.)  
Dow Corning Corp., Mialana, Mich.  
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (For ignition systems.)



# Out OF YOUR MAINTENANCE SHOP . . .



## 3 to 5 EXTRA jobs a day with **BAY-LIFT<sup>®</sup>**



Versatile, dependable and rugged, a Bay-Lift requires a minimum of maintenance. Little attention is required except for an occasional lubrication of the fittings.

A Bay Portable Air Lift adds speed and efficiency to your maintenance shop by getting trucks or trailers up in the air faster and by permitting new speed and convenience while the mechanics work...increasing shop output to the tune of three to five jobs a day!

A Bay-Lift can be used wherever an air hose will reach—indoors or out, upstairs or down—eliminating bottlenecks and waste time of moving trucks, cabs, trailers and cars to stationary lift equipment. Once the vehicle is up, the air hose can be disconnected and used with other tools. Bay-Lift double locks—automatically—in any raised position.

A Bay-Lift is more efficient because the mechanic looks AT his work instead of straining UP to it.

A Bay is like an extra mechanic in the shop, but costs less than the pay a good mechanic earns in a month. From the first day a Bay is used it starts paying for itself...helping keep maintenance costs down and fleet units out making money.



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DIVISION OF LIFE TIME PRODUCTS CORP.  
P.O. Box 85-C11, Canfield, Ohio

Bay Overseas Division, 276 West 43rd St., New York 36, N. Y.  
Cable Lapreh, New York

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## INSULATION—continued

Ensign Products Co., 3525 E. 76th St., Cleveland 5, Ohio.  
General Electric Co., Chemical Div., 1 Plastics Ave., Pittsfield, Mass.  
Ignition-Ite Products Co., P. O. Box 373, Downey, Calif. (For ignition systems.)  
Krylon, Inc., Ford & Washington Sts., Norristown, Pa. (For ignition wiring, battery terminals, etc.)  
M-M-A, Inc., Coho Bldg., Lancaster, Pa.  
Porter Mfg. & Supply Co., 2836 Sunset Blvd., Los Angeles 26, Calif. (For ignition systems.)  
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio. (For ignition systems.)  
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C. (For ignition systems.)  
U. S. Industrial Chemicals Div. of National Distillers Products Corp., 99 Park Ave., New York 16, N. Y. (Sole distributors Heat Div. of Demert & Dougherty, Inc., 8001 W. 47th St., Chicago 32, Ill.)  
V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif. (Ignition.)  
Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa. (For ignition systems.)  
Watts-Wagner Co., 288 Frelinghuysen Ave., Newark 5, N. J. (For ignition systems, etc.)  
Wolfe-Kote Co., 1225 N. 8th St., Sheboygan, Wis.  
Zip Abrasive Co., 1360 W. 9th St., Cleveland 13, Ohio. (Ignition system.)

## INSULATION, Felt, Hair, Paper, Glass, Fiber, Wool, etc.

American Hair & Felt Co., 1828 Merchandise Mart, Chicago, Ill. (Hair and felt.)  
Armstrong Cork Co., Industrial Div., Lancaster, Pa. (Felt paper, fiberglass for trailers.)  
Arvey Corp., 6401 E. Nevada Ave., Detroit 12, Mich. (Felt.)  
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.  
Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.  
Burlington Mills Inc., Burlington, Wis. (Plastic coated trunk lining.)  
Continental-Diamond Fibre Corp., Newark 10, Del.  
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.  
Dow Chemical Co., Midland, Mich. (Expanded polystyrene for trailers.)  
Flinthote Co., 30 Rockefeller Plaza, New York 20, N. Y. (Felt.)  
Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del.  
Great American Industries, Inc., Rubatex Div., Bedford, Va. (Cellular rubber.)  
Gustin-Bacon Mfg. Co., 230 W. 10th St., Kansas City, Mo.  
Johns-Manville, 22 E. 40th St., New York 16, N. Y. (Mineral wool.)  
Keystone Roofing Mfg. Co., Franklin St. & P. R. R., York, Pa. (Paper.)  
LOF Glass Fibers Co., 1810 Madison Ave., Toledo, Ohio. (Glass wool.)  
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del.  
Owens-Corning Fiberglass Corp., National Bank Bldg., Toledo 1, Ohio. (Fibrous glass.)  
Pittsburgh Plate Glass Co., Fiber Glass Div., 1 Gateway Center, Pittsburgh 22, Pa. (Fiber glass.)  
Ruberoid Co., 307 N. Michigan Ave., Chicago 1, Ill. (Felt.)  
Seaman Products Div. of Seaman Paper Co., 1236 Sherman Ave., Evanston, Ill.  
Silvercote Products Inc., 161 E. Erie St., Chicago 11, Ill. (Fiber glass.)  
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. (Paper, for motors.)  
Taylor Fibre Co., Norristown, Pa.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Plastic foam.)  
Western Felt Works, 4021 W. Ogden Ave., Chicago 23, Ill. (Felt.)  
Wilmington Fibre Specialty Co., New Castle, Del.

## INSULATORS, Spark Plug

Frenchtown Porcelain Co., 83 Muirhead Ave., Trenton, N. J.  
Sealtight Corp., 228 First St., N.E., Cedar Rapids, Iowa.

## IRONS, Soldering, Electric

American Electrical Heater Co., Woodward, Cass & Burroughs Aves., Detroit 2, Mich.  
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.  
General Electric Co., Apparatus (Sales Div.), 1 River Rd., Schenectady 5, N. Y.  
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.  
Ideal Industries, Inc., 1014 Park Ave., Syracuse, Ill.  
Kwikheat Mfg. Co., 3732 San Fernando Bldg., Glendale 4, Calif.  
Lenk Mfg. Co., 30 Cummington St., Boston 15, Mass.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.  
Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.  
Phillips Mfg. Co., 2816 Aldrich Ave. S., Minneapolis 8, Minn.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Stanley Tools, 111 Elm St., New Britain, Conn.  
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 21, Pa.  
Vulcan Electric Co., 88 Holten St., Danvers, Mass.  
Wall Mfg. Co., P. O. Box 71, Grove City, Pa.  
Wasserleing Mfg. Co., Inc., 7400 3rd Ave., No. St. Petersburg 6, Fla.  
Weller Electric Corp., 601 Stone's Crossing Rd., Easton, Pa.  
Wen Products Inc., 5806 Northwest Hwy., Chicago 31, Ill.

## IRONS, Tire Branding

Everhot Mfg. Co., 57 S. 19th St., Maywood, Ill.  
Merkert & Sons, 146-10 Jamaica St., Jamaica, N. Y.  
Vulcan Electric Co., 88 Holten St., Danvers, Mass.

## JACKS, Transmission

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.  
Air Hydraulic, Inc., 13106 Broadway Ave., Cleveland 23, Ohio.  
Auto Specialties Mfg. Co., Inc., 643 Grove St., St. Joseph, Mich.  
Blackhawk Tool Co., 5325 W. Rogers St., Milwaukee 46, Wis.  
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland 5, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Manzel Div., Houdaille-Hershey Corp., 315 Babcock St., Buffalo 10, N. Y.  
Stepenson Industries, Inc., 548 E. Fort St., Detroit 26, Mich.  
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
Weaver Mfg. Co., 2177 S. 9th St., Springfield, Ill.  
Wudel Mfg. Co., Edmond J., 6082 Ferguson Dr., Los Angeles 22, Calif.

## JACKS, Vehicle, Hydraulic

Ajax Mfg. Corp. of Wisconsin, 1201 Michigan Blvd., Racine, Wis.  
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.  
Bee-Line Co., Box 569, Davenport, Iowa.  
Blackhawk Mfg. Co., Dept. J-11117, Milwaukee 46, Wis.  
Buehrle & Son, Inc., Philip H., 168 Manalapan Rd., Spotswood, N. J.  
Chicago Pneumatic, 8 E. 44th St., New York 17, N. Y.  
Cleveland Pneumatic Tool Co., Automotive Div., 3781 E. 77th St., Cleveland 5, Ohio.  
Duff-Norton Mfg. Co., 2709 Preble Ave., N. S., Pittsburgh, Pa.  
Edgewater Automotive Div. Auto Specialties Mfg. Co., St. Joseph, Mo.  
Hein-Werner Corp., 1200 National Ave., Waukegan, Wis.  
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio. (Hand and foot.)  
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 7, Neb. (Bumper.)  
Kingston Products Corp., 1400 N. Webster St., Kokomo, Ind.  
March Engrg. Co., Oshkosh, Wis.  
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.  
Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y.

## CCJ's Product Directory

Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.  
R U Jack Corp., P. O. Box 206, Arcade, N. Y.  
Scott-Atwater Mfg. Co., 2901 E. Hennepin Ave., Minneapolis 15, Minn.  
Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.  
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich.  
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn.  
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.  
Wilson, Inc., K. R., Arcade, N. Y.  
Zamax Mfg. Co., W. Broad St. & Maple Ave., Haverstraw, N. Y.

## JACKS, Vehicle, Mechanical

Affolter Mfg. Co., 1225 5th St., S.W., Canton 11, Ohio.  
Aircapitol Mfrs., Inc., 1615 S. Mead St., Wichita, Kansas.  
Ajax Mfg. Corp. of Wisconsin, 1201 Michigan Blvd., Racine, Wis.  
Automatic Steel Products, Inc., Spun Steel Div., 1201 Camden Ave., S. W., Canton 6, Ohio.  
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.  
Blackhawk Tool Co., 5325 W. Rogers St., Milwaukee 46, Wis.  
Caster Mold & Machine Co., 1171 Wooster Rd., N., Barberton, Ohio.  
Dalton Foundries, Inc., Warsaw, Ind. (Scissor type.)  
Duff-Norton Co., 2709 Preble Ave., N. S., Pittsburgh, Pa.  
Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Peterson Mfg. Co., 2716 E. 14 St., Kansas City 27, Mo.  
Ryerson & Haynes Inc., 2307 E. Ganson St., Jackson, Mich.  
Sal Metal Products Co., 120 Freeman St., Brooklyn, N. Y.  
Shaw Co., Joseph, 6120 Detroit Ave., Toledo 7, Ohio.  
So-Lo Jack Co., Attleboro, Mass.  
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.  
Triangle Jack Co., 1208 S. Washington St., Wichita, Kan.  
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. (Bumper.)  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
Woodworth Corp., C. B., Greene, N. Y.

## JACKS, Vehicle, Pneumatic (Advertisers Only)

Bay Mfg. Div., Life Time Products Corp., Box 537 Youngstown 1, Ohio.  
Branick Mfg. Co. Inc., 2600 Third Ave., Fargo, N. D.  
Chicago Pneumatic, 8 E. 44th St., New York 17, N. Y.

## JIGS, Connecting Rod Aligning

Amcco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
Olson Co., Thomas C., 609 E. Washington Ave., Madison 3, Wis.  
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.  
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.  
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.  
Wilson, Inc., K. R., Arcade, N. Y.





Barrett Says:

# 3

## HIGH PRODUCTION... PROFIT-PRODUCING MACHINES

**Speed Up Your Shop Operation  
with this equipment**

### B-85 Super Power (giant size) AIR POWER RIVETER

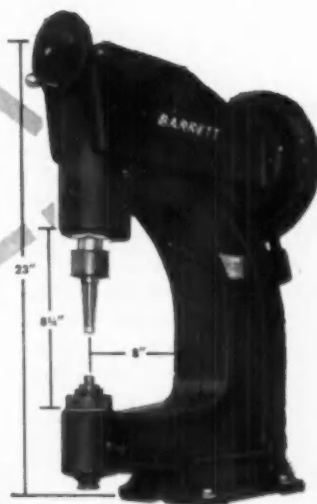
that does a multitude of jobs. Air powered for speed and operating ease. Capacity up to  $\frac{3}{8}$ " tubular rivets,  $\frac{3}{16}$ " solid brass, copper and iron rivets. This all-new riveter ideal for

- servicing automotive, earth-moving and industrial equipment
- fabrications of storm sash, jalousies
- aircraft work and sheet metal applications

Rugged construction insures a life time service . . . instant change tool holder provides for rapid change of punches and knurls . . . adjustable ram stroke and quick release air valve . . . special tooling available.

B-85 Bench Model (Illustrated)

B-86 Deluxe, Floor Model



B-85

Patent  
Pending



Patent  
Pending

B-625

### B-625 SHU-STRIP-R '25

Removes bonded lining from shoes at the rate of approximately 250 per hour.

Eliminates the hazards of fire . . . smoke . . . and odor from burning lining off shoes — No Shoe Distortion.

Fast and easy to operate.

Handles all popular brake shoes from 7" to  $\frac{16}{16}$ " diameter — up to 3" width.

B-625 Deluxe, Power Driven,  
Floor Model (Illustrated)

B-625H Hand Power, Bench Model

B-625 Power Driven, Bench Model



B-370B

### B-370B PARTS WASHER

Washes and rinses brake shoes, front end, and other metal parts without soaking. Saves one-fourth usual cleaning time. Uses low-cost cleaning compounds. Parts dry quickly from heat of cleaning solution. Particularly valuable for large shoe bonding operations.

Available at your Local Barrett Jobber.

## BARRETT EQUIPMENT COMPANY

21st & Cass Ave.

St. Louis 6, Mo.

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CCJ's Product Directory

## JIGS, Ring Gear Riveting

Lempco Products, Inc., 5400 Dunham Rd., Bedford, Ohio.  
Manley Div., Douglas Motors Inc., 2025 Clybourn St., Milwaukee, Wis. (Front wheel suspension.)

## KEYS, Valve Stem

Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.  
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.  
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.  
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.  
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.  
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Cory, Pa.  
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

## LACQUERS

(See also Enamels)

Acme Quality Paints, Inc., 3250 St. Aubin Ave., Detroit 11, Mich.  
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa.  
American Paint Co., 902 Larrabee St., Chicago 10, Ill.  
Automotive Finishes, Inc., P. O. Box 457 Northwest Station, Detroit 4, Mich.  
Bakelite Corp., 80 E. 42nd St., New York 17, N. Y.  
Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.  
Brown Co., Andrew, 5431 District Blvd., Los Angeles 22, Calif.  
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.  
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill.  
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.  
du Pont de Nemours & Co., E. I. Finishes Div., Refinish Sales, Wilmington 98, Del.  
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.  
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. (Nitro-cellulose and Ethyl cellulose.)  
Glidden Co., 900 Union Commerce Bldg., Cleveland 14, Ohio.  
Horn Co., A. C., Products Finishes Div., 10 St. & 44 Ave., Long Island City 1, N. Y.  
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.  
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.  
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif.  
Nikolas & Co., G. J., 1227 Van Buren St., Chicago 7, Ill.  
Oxidermo Products, Inc., Springport, Mich.  
Pierce & Stevens Chemical Corp., 710 Ohio St., Buffalo, N. Y.  
Pittsburgh Plate Glass Co., Paint Div., 1 Gateway Center, Pittsburgh 22, Pa.  
Plasti-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 5, Ohio.  
Rinsed-Mason Co., 5935 Milford St., Detroit 10, Mich.  
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.  
Standard-Toch Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.  
Zac-Lac Paint & Lacquer Corp., 350 Simpson St. N.W., Atlanta 13, Ga.

## LAMP BULBS, Miniature Incandescent

Carlton Lamp Div. Hudson Lamp Co., 523 Elm St., Arlington, N. J.  
General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland, Ohio.  
Hudson Lamp Co., 523 Elm St., Kearny, N. J.  
Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.  
Matchless Electric Co., 1700 Washington Blvd., Chicago 12, Ill.  
National Carbon Co. Div. of Union Carbide & Carbon Co., 30 E. 42nd St., New York 17, N. Y.  
Penetrax Corp., 615 Front St., Toledo 5, Ohio.

Save Lamp Co., 3687 Ash St., Baltimore 11, Md.  
Sylvania Electric Products, Inc., Lighting Div., 60 Boston St., Salem, Mass.  
Tung-Sol Electric, Inc., 95 Eighth Ave., Newark 4, N. J.

LAMP LENSES, See Lenses, Lamp

## LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. (Tail, parking and clearance.)  
Anthes Force Oil Co., Ft. Madison, Iowa. (Tail, parking marker and clearance.)  
Apco Mossberg Co., Lamb St., Attleboro, Mass. (License plate.)  
Arrow Safety Device Co., M. Holly, N. J. (Tail, dome, parking and clearance.)  
Auto Lamp Mfg. Co., 2009 S. Indiana Ave., Chicago 9, Ill. (Clearance, marker, license & back-up.)  
Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill. (Including trailer clearance and retractable type stop lamps.)  
Beta Machine Co., 1800 Pennsylvania Ave. W., Warren, Pa.  
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Clearance and marker.)  
Bowman Automotive Plastics Co., Box 336, Olmstead Falls, Ohio. (Tail.)  
Cole Automotive Products Co., P. O. Box 56, Alfred St. Sta., Detroit 1, Mich. (Clearance, tail and marker for trucks and buses.)  
Columbus Metal Products Co., 1341 Norton Ave., Columbus 3, Ohio. (Dome, marker, clearance, back-up, etc.)  
Cox Mfg. Co., 305 N. Wayne St., Angola, Ind. (Clearance.)  
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Dome, back-up, tail, parking, running board and clearance.)  
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.  
Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. (Cowl, fender, tail and clearance.)  
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.  
Electrolite Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.  
General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland 12, Ohio.  
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Clearance dome, back-up, tail and marker and flashing warning lamps, emergency vehicle; fuel compartment lamps.)  
Grote Mfg. Co., Grote Square, Bellevue, Ky. (Tail, back-up, dome, clearance, combination stop, tail and license bracket.)  
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.  
H & P Die & Stamping Co., 13945 Triskett Rd., Cleveland 11, Ohio.  
Hall Lamp Co., C. M., 1035 Hancock Ave., E., Detroit, Mich.  
Hollywood Accessories, Inc., 11917 W. Olympic St., Los Angeles 64, Calif. (License plate.)  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio. (Back-up, fender, dome, tail, parking and clearance.)  
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.  
Look & Co., R. J., 443 N. Gay St., Baltimore, Md. (Parking.)  
McKee Glass Co., Bullitt Ave., Jeanette, Pa. (Dome.)  
Miro-Flex Co., 1824 E. 2nd St., Wichita 7, Kan. (Clearance and marker.)  
Norlipp Co., 5926 S. Lowe Ave., Chicago 21, Ill. (Clearance and back-up.)  
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 7, Mo.  
Regal Motor Products Inc., 6325 Grand River Ave., Detroit 8, Mich. (Tail & parking.)  
Rosen & Co., A. W., 447 Tenth Ave., New York 7, N. Y. (Cowl, fender, dome, marker, parking and clearance.)  
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Cal. (Tail, parking clearance, fender, back-up and dome.)  
Signal-Stat Corp., Signal-Stat Bldg., 523 Kent Ave., Brooklyn 11, N. Y. (Dome and tail.)  
Sparton Automotive Div. of Sparton Corp., Jackson, Mich. (Armored, clearance, flush-type, back-up, marker, tail, and combination stop and tail.)  
Speaker Corp., J. W., 3059 N. Well St., Milwaukee 12, Wis. (Back-up, clearance, tail and marker.)  
Speedometer Service Co., 151 Forest St., Montclair, N. J. (Hood, trunk and glove compartment.)

Superior Parts Mfg. Corp., 1922 W. Grand Ave., Chicago 22, Ill. (Clearance.)  
Terado Co., 1068 Raymond Ave., St. Paul 13, Minn.  
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Dome.)  
Thatcher Glass Mfg. Co., McKee Div., Jeanette, Pa. (Dome.)  
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.  
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y. (Back-up.)  
U. S. Tool & Mfg. Co., 1832 N. Sheffield Ave., Chicago, Ill. (Clearance for trucks and buses.)  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Back-up.)  
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Fender, back-up, clearance, dome, parking and tail.)

## LAMPS, Drying, Baking and Heating

Dry Climate Lamp Corp., 410 Mill St., Greensburg, Ind.  
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio.  
General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio.  
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill. (Infra-red.)  
North American Electric Lamp Co., 1520 N. 13th St., St. Louis 6, Mo. (Infra-red.)  
Penetrax Corp., 615 Front St., Toledo 5, Ohio. (Infra-red.)  
Trippe Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.  
Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

## LAMPS, Fog, Head and Spot

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill.  
Arnolt Corp., Automatic Div., Argonne Rd., Warsaw, Ind.  
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill. (Fog and spot.)  
Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass.  
Case Products Corp., 612 Hancock Ave., Bridgeport 2, Conn. (Spot.)  
Dietz Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y. (Fog and spot.)  
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.  
Electric Auto-Lite Co., Lamp Div., Lockland, Ohio. (Fog and road.)  
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.  
General Electric Co., Miniature Lamp Dept., Nela Park, Cleveland 12, Ohio.  
General Electric Co., Wiring Devices Dept., 95 Hathaway St., Providence 7, R. I. (Spot.)  
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Fog.)  
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Fog.)  
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.  
Hall Lamp Co., C. M., 1035 E. Hancock Ave., Detroit, Mich. (Fog.)  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.  
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 58, Calif. (Road and spot.)  
Matchless Electric Co., 1423 W. Lake St., Chicago 7, Ill.  
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 7, Mo. (Fog.)  
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.  
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.  
Spartan Automotive Div. of Sparton Corp., Jackson, Mich. (Fog and auxiliary driving.)  
Standard-Thompson Corp., Vandalia, Ohio. (Spot.)  
Tung-Sol Electric, Inc., 95 8th Ave., Newark 4, N. J.  
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y. (Fog.)  
United Motor Service, General Motor Bldg., Detroit 2, Mich.  
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.  
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.



*Hitch your trailers to a star...*

## Dayton fifth wheels



*Reduce maintenance... Increase life*

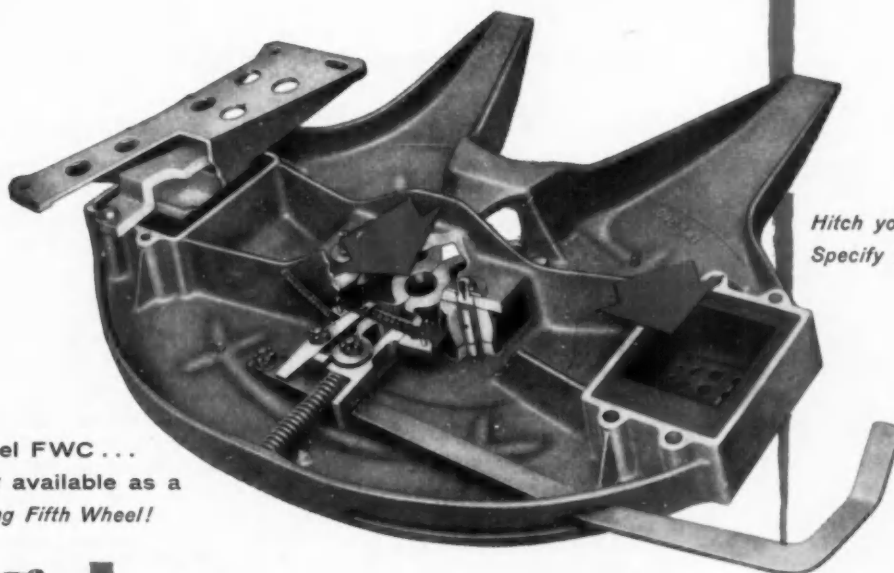
- \* New precision machined coupling jaws provide 360° hardened king pin gripping surface.
- \* Rubber compression bushings.

### NEW COUPLING JAWS...

give maximum king pin gripping surface with no slack to cause wear... longer jaw life... longer king pin life... and greater safety.

### RUBBER COMPRESSION BUSHINGS

have been in service for 20 months without a single replacement... require no greasing... combine bushings and shock eliminators into one simplified unit.



*Hitch your trailers to a star,  
Specify Dayton Fifth Wheels*

Model FWC...  
Now available as a  
*Sliding Fifth Wheel!*



cast steel wheels  
brake drums



fifth wheels  
landing gears



### THE DAYTON STEEL FOUNDRY CO.

P. O. Box 1022, Dayton 1, Ohio

SERVING THE MOTOR TRANSPORTATION INDUSTRY OVER 50 YEARS

# lamps to lights

CCJ's Product Directory

## LAMPS—continued

Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

**LAMPS, HEAD, See Lamps, Fog, Head and Spot**

## LAMPS, Sealed Beam Units

Electric Auto-Lite Co., Toledo 1, Ohio.  
General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio.  
Guide Lamp Div. General Motors Corp., 25 St. & Arrow Ave., Anderson, Ind.  
Trippie Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill.  
Tung-Sol Electric, Inc., 95-8th Ave., Newark 4, N. J.  
United Motor Service, General Motor Bldg., Detroit 2, Mich.  
Westinghouse Electric Corp., Lamp Div., MacArthur Ave., Bloomfield, N. J.

## LAMPS, Tell-Tale, Rear Signal or Tail Lamp, Dash

Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Running lights.)  
Eklind Tool & Mfg. Co., 2627 N. Western Ave., Chicago 47, Ill.  
Rosen & Co., A. W., 447 Tenth Ave., New York 7, N. Y.  
Signal-Stat Corp., Signal-Stat Bldg., 523-39 Kent Ave., Brooklyn 11, N. Y. (Hand brake and stop light.)  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Hand brake.)

## LAMPS, Trouble, Battery Operated

Alden Products Co., 117 N. Main St., Brockton 64, Mass. (Plugs into cigar lighter socket.)  
Arco Mfg. & Sales Co., 451 Tenth Ave., N. Y. (Plugs into cigar lighter socket.)  
Busch & Co., A. G., 2632 N. Central Ave., Chicago 39, Ill. (Plugs into cigar lighter socket.)  
Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.  
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.  
Enco Mfg. Co., 4520 W. Fullerton Ave., Chicago 39, Ill.  
Federal Sign & Signal Corp., 8765 S. State St., Chicago 19, Ill.  
Guide Lamp Div., General Motors Corp., 25th St. and Arrow Ave., Anderson, Ind. (Plugs into cigar lighter socket.)  
Hollywood Accessories, Inc., 11917 W. Olympic Blvd., Los Angeles 64, Calif. (Plugs into cigar lighter socket.)  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kilbern-Sauer Co., Post Rd., Fairfield, Conn. (Also magnetic.)  
Perfection Automotive Products Corp., 725 W. Elizabeth St., Detroit 1, Mich.  
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester, Mass.  
Standard Portable Cord Co., Mayville, N. Y.  
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.  
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.  
Walker Bros., River & End Sts., Conshohocken, Pa.  
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J. (Plugs into cigar lighter socket.)  
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

## LAMPS, Trouble, Electric

Advanced Mfg. Inc., 1214 W. 254 St., Harbor City, Calif.  
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill.  
Benjamin Reel Products, Inc., 10700 Broadway, Cleveland 25, Ohio.  
Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa.  
Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass.  
Cordomatic, Dept. C, 17th and Indiana, Philadelphia 32, Pa.

Crescent Co., Pawtucket, R. I.  
Eagle Electric Mfg. Co., 23-10 Bridge Plaza, S., Long Island City, N. Y.  
General Electric Co., Wiring Device Dept., 95 Hathaway St., Providence 7, R. I.  
Glade Mfg. Co., 1632 W. 75th Place, Chicago 20, Ill.  
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.  
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Magnetic.)  
Magnetix, Inc., 101 S. Van Brunt St., Englewood, N. J. (Magnetic.)  
McGill Mfg. Co., Electrical Div., 259 Indiana Ave., Valparaiso, Ind.  
Moffatt Products Inc., 4824 Triton Dr., Minneapolis 22, Minn.  
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.  
Royal Electric Corp., 95 Grand Ave., Pawtucket, R. I.  
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.  
Standard Portable Cord Co., Mayville, N. Y.  
Thompson-Neaylon Mfg. Co., 3551 S. Morgan St., Chicago 9, Ill.  
Triple-A Specialty Co., 2101 Walnut St., Chicago 12, Ill.  
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill.  
Walker Bros., River & End Sts., Conshohocken, Pa.

## LAMPS, Warning

Carpenter Mfg. Co., 195 Master-Light Bldg., Somerville 45, Mass. (Roof mounted, colored and flashing.)  
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.  
Federal Sign & Signal Corp., 8765 S. State St., Chicago 19, Ill. (Flashing red light for emergency vehicles, also combination siren and warning light.)  
Portable Light Co., 216 William St., New York 38, N. Y.  
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill. (Revolving.)  
Trippie Mfg. Co., 133 N. Jefferson St., Chicago 6, Ill. (Revolving flashing.)  
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill.

## LANDING GEARS, TRAILER, See Gears, Landing Trailer

## LATHES, Bench

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo, Mich.  
Elgin Tool Works, 87 N. State St., Elgin, Ill.  
Harding Bros. Inc., 1418 College Ave., Elmira, N. Y. (Precision.)  
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Precision.)  
LeBlond Machine Tool Co., R. K. Madison & Edwards Rds., Cincinnati 8, Ohio.  
Rivett Lathe & Grinder, Inc., 20 Riverview Rd., Brighton, Boston, Mass.  
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.  
South Bend Lathe Works, 425 E. Madison St., South Bend 22, Ind.  
Springfield Machine Tool Co., Springfield, Ohio.  
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Piston regrooving & cleaning lathe.)

## LATHES, Brake Drum

Ameco Tools, Inc., 2118 Commonwealth Ave., North Chicago, Ill.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Bee-Line Co., P. O. Box 569, Davenport, Iowa.  
Dixie-Jibo Co., 2004 Mullanphy St., St. Louis 6, Mo.  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 51, Calif.  
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif.  
Star Machine Tool Co., 201 Sixth St. S.E., Minneapolis 14, Minn.  
Sunstrand Machine Tool Co., 2531 Eleventh St., Rockford, Ill.  
Van Norman Automotive Equipment Co., 3640 Main St., Springfield 7, Mass.  
VanTool, 139 N. 22nd St., Philadelphia 3, Pa.

## LATHES, COMMUTATOR, See Undercutters, Mica

## LIFT TRUCKS, See Trucks, Lift

## LIFTS, Portable One End

Automotive Equipment Mfg. Co., 11000 S. Alameda St., Lynwood, Cal.  
Automatic Steel Products, Inc., 1201 Camden Ave., S.W., Canton 8, Ohio.  
Bay Mfg. Div., Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.  
Branick Mfg. Co. Inc., 2600 Third Ave., Fargo, N. D.  
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

## LIFTS, TRANSMISSION, See Jacks, Transmissions.

## LIFTS, Vehicle, Electric

Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.  
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.  
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.  
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.  
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.  
Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
Wayne Pump Co., Salisbury, Md.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

## LIFTS, Vehicle, Hydraulic

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.  
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.  
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. (Also portable.)  
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo.  
Gilbert & Barker Mfg. Co., West Springfield, Mass.  
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Air and electrically operated.)  
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.  
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. (Air operated.)  
United States Air Compressor Co., 3309 Harvard Ave., Cleveland 5, Ohio.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Pneumatic-hydraulic.)  
Wilson, Inc., K. R., Arcade, N. Y. (Rotary.)

## LIFTS, Vehicle, Pneumatic

Automotive Equipment Mfg. Co., 11000 South Alameda St., Lynwood, Calif.  
Bay Mfg. Div., Life Time Products Corp., Box 537, Youngstown, Ohio. (One end.)  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Branick Mfg. Co. Inc., 2600 Third Ave., Fargo, N. D.  
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.  
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. (One end.)  
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y. (Portable, one end.)

## LIGHTS, See Lamps and Lamp Bulbs

## LIGHTS, Timing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. (Neon type.)  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Neon & power types.)  
Arco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Neon type.)  
Auto Test, Inc., 600 S. Michigan Ave., Chicago 5, Ill. (Neon & power types.)  
Cornwall Quality Tools Co., Mogadore, Ohio. (Power type.)



## New York logger cuts tire costs 50% with Cooper Traction-Treads, gets more recaps

Slawson Lumber Co., Hunt, New York, was ready to give up the idea that any tire could deliver economical service on a logging operation as tough as theirs. The tires they wanted had to produce a powerful traction bite at logging sites and still give highest mileage on the road. The answer to this double-trouble problem still seemed impossible, after trying brand after brand.

### **Cooper Traction-Treads answer double-trouble problem**

A Cooper dealer recommended using the combination of Nylon Traction-Treads for drive wheels and Road-Masters for free rolling wheels. From the beginning, this Cooper combination looked like the right answer to Slawson Lumber's double-trouble problem. Now, after months of the kind of off-and-on-the-road service that made other tires fail fast, Slawson reports a 50% saving on the cost of rubber. And every Cooper tire has been recappable after delivering its original money-saving performance.

### **America's most versatile tire**

Cooper Traction-Treads cut costs

whether used as highway tires or in combination off-and-on-the-road service. The extra deep and smoother-running tread, deeper by far than other tires that sell at a higher premium price, delivers phenomenal mileage for truckers who require extra traction to move heavy payloads over hilly country or in slippery and risky weather.

### **See how much you can save**

A visit with your Cooper dealer will save you money because of the consistently lower prices he offers and the extra mileage you get from Cooper truck tires. Or write us direct for complete information, if you prefer. Cooper Traction-Tread and Road-Master tires are available in rayon and nylon types and feature Shock-Guard construction — the new development that guarantees a practically damage-proof tire body. Cooper Tire & Rubber Company, Findlay, Ohio.



Alfred M. Slawson (left) Pres. of Slawson Lumber Co. and Al Lorenz, partner of Cooper dealer A. R. Christiano, Leicester, New York, put "the gauge" on a Cooper Traction-Tread.



# Cooper Tires

... miles ahead

# liner to locks

CCJ's Product Directory

## LIGHTS—continued

Dorothea Mechanisms, Inc., Gale, 39-39 63rd St., Woodside, L. I., N. Y.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon type.)  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J.  
Kal-Equip Co., Box 567, Kalamazoo, Mich.  
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.  
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Neon type.)  
Niehoff Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Neon type.)  
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.  
Schauer Mfg. Corp., 4500 Alpine Ave., Rossmore, Ohio. (Neon and power types.)  
Sittler Corp., 18 N. Ada St., Chicago 7, Ill.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Neon type.)  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon type.)  
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Neon type.)  
Tippet Timer, 5822 Helen St., Jennings 21, Mo.  
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.  
Tungsten Mfg. Co., 1923 E. 79th St., Chicago 49, Ill. (Neon & power type.)  
Weidenhoff Corp., Algona, Iowa. (Neon & power type.) Sole distributors, Bowser, Inc., Fort Wayne 2, Ind.

## LINER, Body, Truck Trailer, (advertisers only)

Spring Packing Corp., 332 S. Michigan Ave., Chicago 4, Ill. (Brush-on plastic.)

## LINING, Brake

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.  
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.  
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.  
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa.  
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.  
General Metals Powder Co., 130 Elinor Ave., Akron 5, Ohio.  
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.  
Grizzly Mfg. Div. Movement Automotive Products, Inc., 700 W. Caroline St., Paulding, Ohio.  
Hope Webbing Co., P. O. Box 1495, Providence 1, R. I.  
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.  
Johns-Manville, 22 E. 40th St., New York 16, N. Y.  
Laseo Brake Products Corp., 2615 Magnolia St., Oakland, Calif.  
Marshall-Ellipse Div. of Bendix Aviation Corp., Box 538, Troy, N. Y.  
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.  
Molded Materials Div., Carlisle Corp., Gillis Ave., Ridgeway, Pa.  
National Brake Block Corp., 37-17 57th St., Woodside, N. Y.  
National Vulcanize Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. (Fibre.)  
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.  
Raybestos-Manhattan, Inc., Equip. Sales Div., 75 E. Main St., Stratford, Conn.  
Rex-Hide Brake Lining Co., 57 Glenwood Pl., East Orange, N. J.  
Rosendale Ruboil Co., 80 Euclid Ave., New York 17, N. Y.  
Russell Mfg. Co., Middletown, Conn.

Scandinavia Belting Co., 744 Broad St., Newark 1, N. J.  
Silver Line Brake Lining Corp., 5618 E. Washington Blvd., Los Angeles 22, Calif.  
Southern Friction Materials Co., Box 1476, Charlotte, N. C.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
Triplewear, Inc., 633 40th St., Union City, N. J.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
Universal Friction Materials Div. of Gairing Tool Co., 1700 United Artists Bldg., Detroit 26, Mich.  
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.  
Wellman Co., S. K., 200 Egbert St., Bedford, Ohio.  
World Bestos Div. of Firestone Tire & Rubber Co., 1112 S. 25th St., New Castle, Ind.

## LINKS, Shock Absorber

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio.  
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.  
Bashian & Sons Co., Henry, 40391 Grand River Ave., Farmington, Mich.  
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.  
Doan Mfg. Corp., 1761 London Rd., Cleveland 12, Ohio.  
Elgin Machine Works, 412 N. State St., Elgin, Ill.  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
Preferred Electric & Wire Co., Bush Term. Bldg. #8, Brooklyn 32, N. Y.  
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.  
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill.  
Wohler Corp., 700 E. Grand River Ave., Lansing 5, Mich.

## LINKS, Tire Chain Repair

Campbell Chain Co., York, Pa.  
Flower City Specialty Co., 155 Hollenbeck St., Rochester, N. Y.  
Look & Co., R. J., 343 N. Gay St., Baltimore, Md.  
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.  
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo.  
Peerless Chain Co., Front & Walnut Sts., Winona, Minn.  
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.  
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.  
Republic Steel Corp., Bolt & Chain Div., 1970 Carter St., Cleveland 13, Ohio.  
Roll-O-Matic Chain Co., 200 Wyandotte St., Kansas City 5, W. Mo.  
St. Pierre Chain Corp., Frank St., Worcester, Mass.  
Sal Metal Products Co., 120 Freeman St., Brooklyn 22, N. Y.  
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind.  
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill.  
Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 675 Madison Ave., New York 22, N. Y.

## LOAD BINDERS

American Logging Tool Corp., 4203 Union Blvd., St. Louis 15, Mo.  
Canton Cast Products Co., 2400 13 St., N.E., Canton 5, Ohio. (Also exclusive distributor for American Forge & Mfg. Co.) (Ratchet type.)  
Canton Malleable Iron, Canton, Ohio.  
Durbin-Durco, Inc., 1435 Woodson Rd., St. Louis 14, Mo.  
Eagle Mfg. Co., Appleton, Wis.  
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif.  
Stacy Mfg. Co., Tiffin, Ohio.

## LOADERS, FRONT END (Construction & Off-Highway)

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.

J. I. Case Co. (Terratract), 700 State St., Racine, Wis.  
Caterpillar Tractor Co., Peoria, Zone 8, Ill.  
Clark Equipment Co., Construction Machinery Div. (Michigan), P.O. Box 599, Benton Harbor, Mich.  
The Frank G. Hough Co. (Payloader), Sunnyside Ave., Libertyville, Ill.  
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.  
Jaeger Machine Co., 550 W. Spring St., Columbus 16, Ohio.  
Mixermobile Manufacturers Inc. (Scoopmobile), 8027 N.E. Killingsworth St., Portland, Ore.  
The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.  
Pettibone Mulliken Corp. (Speedall), 4700 W. Division St., Chicago 51, Ill.  
Tractomotive, Deerfield, Ill.  
The Yale & Towne Mfg. Co. (Trojan), Batavia, N. Y.

## LOADERS, Truck (Elevating Tailgate)

Anthony Co., Streator, Ill.  
Cemco Industries, Inc., Galion, Ohio.  
Convento Mfg. Co., 3rd & Green Sts., Cambridge City, Ind.  
Daybrook Hydraulic Div., L. A. Young Spring & Wire Corp., Bowling Green, Ohio.  
Gar Wood Industries, Inc., Wayne, Mich.  
Heil Co., Dept. 62115, 3000 W. Montana St., Milwaukee 1, Wis.  
Hercules Galion Products, Inc., Galion, Ohio.  
Macy Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
Marion Metal Products Co., Cheney Ave., Marion, Ohio.  
Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill.  
Perfection Steel Body Co., S. East St., Galion, Ohio.  
Revolver Corp., U. S. Route 1 at 86th St., North Bergen, N. J.  
Stratton Equipment Co., 2030 E. 105th St., Cleveland 6, Ohio. (Also side loaders.)  
Ven Corp., 2828 Newell St., Los Angeles 39, Cal.  
Watson Co., H. S., 1316 67th St., Emeryville, Calif.

## LOCKS, Brake, Hill Holding

Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.  
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn. (Also front brake control.)  
Sharp Mfg. Co., 109 W. Columbus St., Nelsonville, Ohio.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
Warehouse Distributing Co., 8810 N. 19th St., Philadelphia 40, Pa.

## LOCKS, Ignition

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.  
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee 4, Wis.  
Eagle Lock & Screw Co., S. Main St., Terryville, Conn.  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.  
Hurd Lock & Mfg. Co., 219 N. Main St., Almont, Mich.  
Miller Co., L. B., 336 W. Main St., Stamford, Conn.  
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia, Pa.

## LOCKS, Trailer

Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.  
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.  
Lavin Machine & Mfg. Wks., A. M., Hathboro, Pa. (Trailer-hitch.)

LP GAS, See Fuels, Engine  
LUBRICANTS, ENGINE & CHASSIS, See Oils and Lubricants  
LUBRICANTS, GEAR, See Oils and Lubricants



# NOTHING UNDER THE SUN...

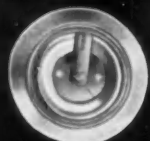
Surpasses **HANSEN** Quality  
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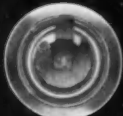
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Model 103  
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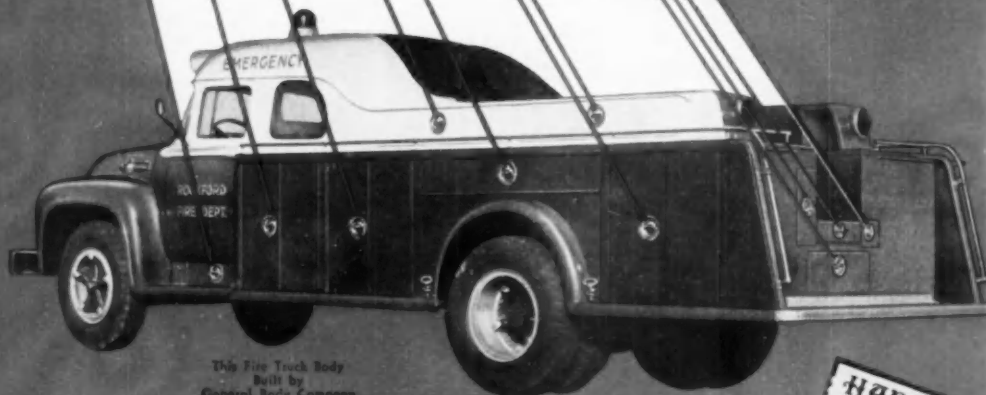
Model 102L — 2  
point lock and  
flush handle. Front  
and back views.



Model 101S — 1  
point lock and  
flush handle. Front  
and back views.



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# First 50 all-aluminum flatbeds

**Working closely with Trailmobile and P-I-E, Kaiser Aluminum engineers develop a lightweight—yet stronger than ever—welded aluminum trailer**

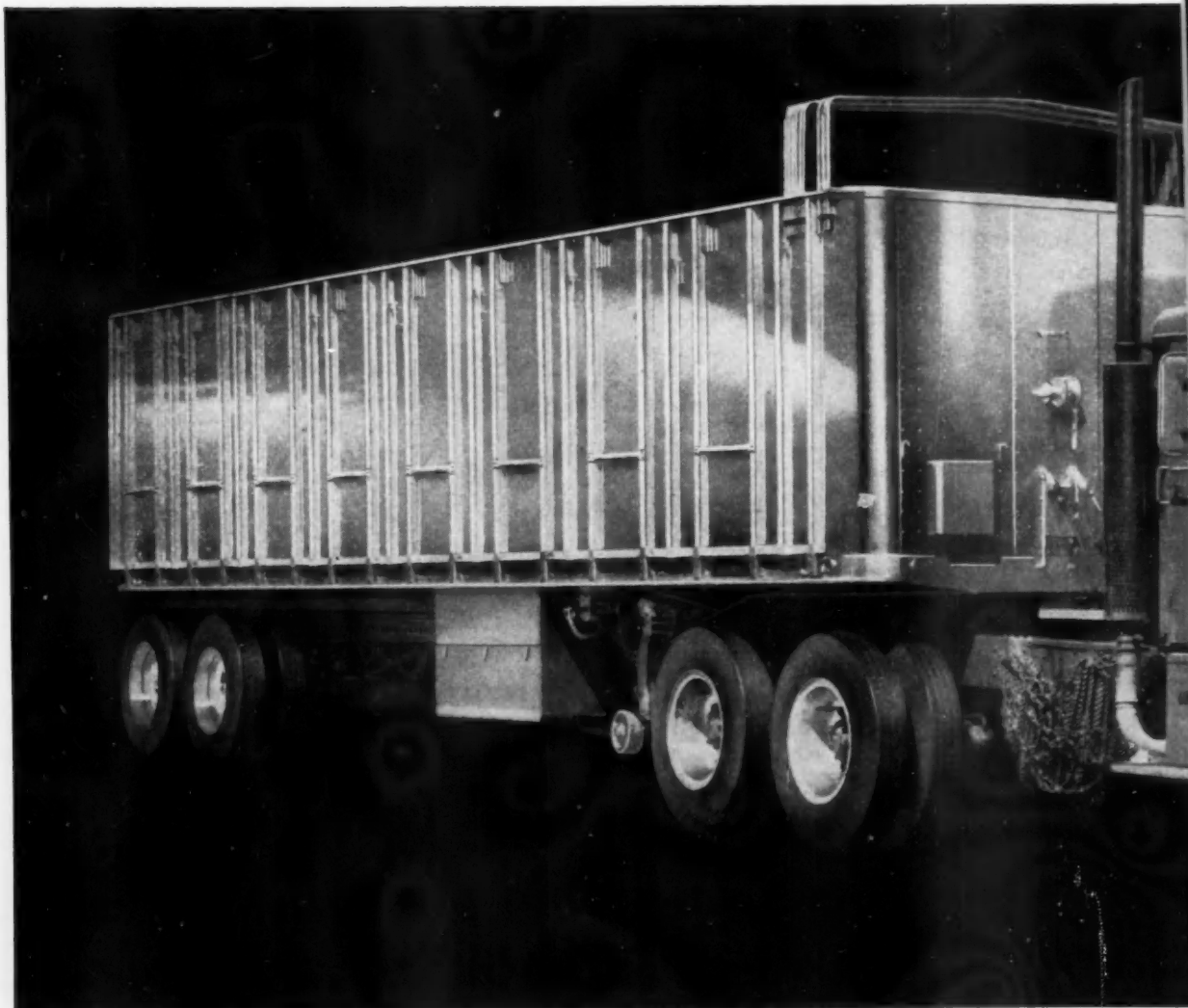
Weighing only 9,460 pounds, this radically new aluminum trailer assures a *profitable payload boost* because it is a full ton and a half lighter than comparable steel versions!

It's one of 50 Kaiser Aluminum-designed flatbeds recently purchased by P-I-E from Trailmobile to transport heavy machinery and other bulky shipments along P-I-E's rugged western routes. Built to standard size specifications, this sleek aluminum trailer features the very latest advances in metallurgy and design.

**Take its exceptional strength, for example.**

This was achieved through the use of Kaiser Aluminum's special high-strength, weldable 5083 alloy ... which in turn permitted the welding of all structural components into an integral unit. Because aluminum is resilient and resists fracturing, cargo safety is protected every mile of the way.

Among its other advantages: interchangeable aluminum side panels that won't rust, rot or warp ... tarp box amidship for quick conversion to van type trailer ... aluminum landing gear and air-ride



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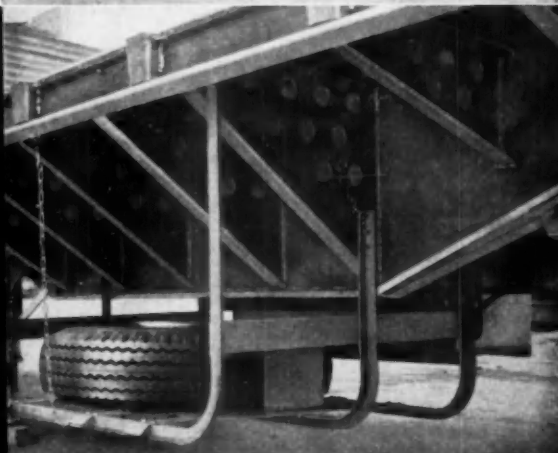
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tandem that slides over a 10-foot range to insure proper axle loading.

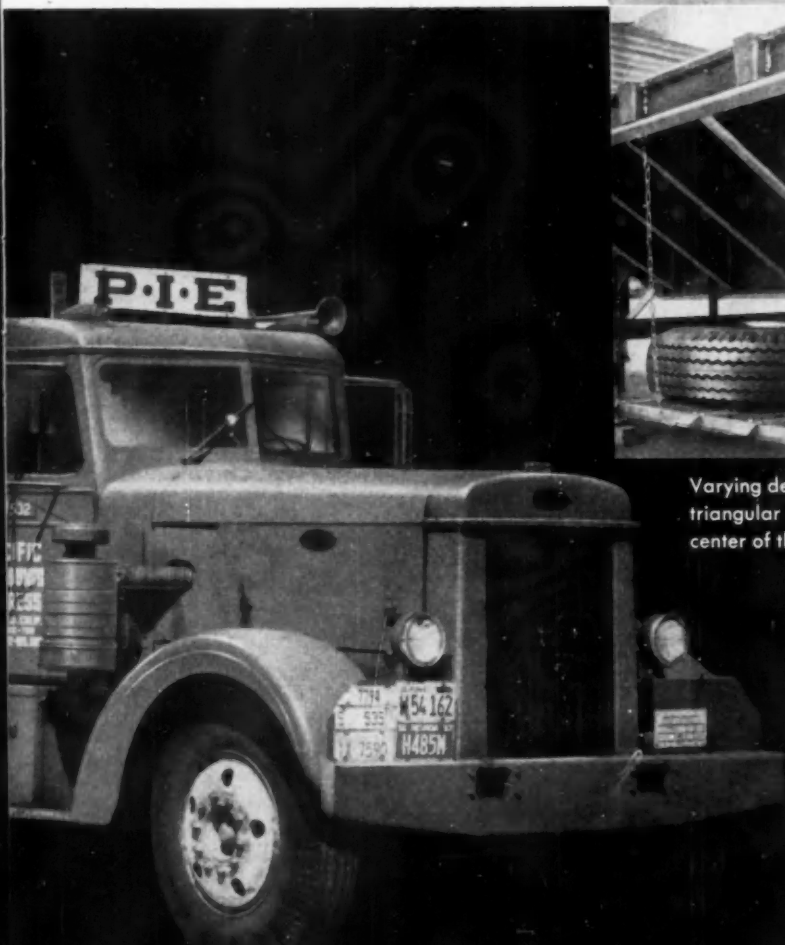
No matter what your hauling requirements, our engineers will gladly work with you to develop a design which will help lower your costs...increase your profits! For immediate service, call the Kaiser Aluminum sales office listed in your telephone directory. Kaiser Aluminum & Chemical Sales, Inc., General Sales Office, Palmolive Bldg., Chicago 11, Ill.; Executive Office, Kaiser Bldg., Oakland 12, Calif.

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Varying depth of aluminum main girders and triangular outriggers provide strength in the center of the unit.



# lubricants to magnesium alloys

CCJ's Product Directory

## LUBRICANTS, Tire

American Grease Stick Co., 1146 Hoyt St., Muskegon, Mich.  
American Sand-Banum Co., Inc., 9 Rockefeller Plaza, N. Y. 20, N. Y.  
Bishman Mfg. Co., Osseo 4, Minn.  
Cohutta Talc Co., P. O. Drawer 363, Dalton, Ga.  
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.  
Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.  
Gross Mfg. Co., 1711 California St., Monrovia, Calif.  
National Adhesives Div. of National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.  
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.

## LUBRICATORS, Automatic, Vehicle Mounted

(Advertisers Only)

Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo.

## LUBRICATORS, Hand

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.  
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Bishman Mfg. Co., Osseo, Minn.  
Coil Mfg. Co., 1013 N. Fares Ave., Evansville 11, Ind. (Universal joint, clutch and shock absorber.)  
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.  
Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J.  
Gilbert & Barker Mfg. Co., West Springfield, Mass.  
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.  
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.  
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.  
K. P. Mfg. Co., 1226 Linden Ave., Minneapolis 1, Minn.  
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 20, Conn.  
Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.  
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.  
United States Air Compressor Co., 6300 Harvard Ave., Cleveland 6, Ohio.  
Wood Co., John, Bennett Pump Div., Broadway & Wood St., Muskegon, Mich.

## LUBRICATORS, Portable, High Pressure, Compressed Air

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.  
Aro Equipment Corp., Bryan, Ohio.  
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Brown Grease Gun Co., Charlotte, N. C.  
Bud-Air Co., R. D. 1, Pulaski, N. Y.  
Cemco Industries, Inc., Galion, Ohio.  
Gilbert & Barker Mfg. Co., West Springfield, Mass.  
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.  
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.  
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.  
United States Air Compressor Co., 6300 Harvard Ave., Cleveland 6, Ohio.

## LUBRICATORS, Portable, High Pressure, Electric

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.  
Aro Equipment Corp., Bryan, Ohio.

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill.  
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.  
Wilson, Inc., K. R., 215 Main St., Arcade, N. Y.

## LUBRICATORS, Portable, High Pressure, Hand Operated

Adams Grease Gun, 88-92 N. First St., Brooklyn 11, N. Y.  
Aro Equipment Corp., Bryan, Ohio.  
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Jiffy Lubricator Co., 304 Second Ave., Fargo, N. D.  
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.  
United States Air Compressor Co., 6300 Harvard Ave., Cleveland 6, Ohio.  
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.  
Wayne Pump Co., Wayne-Marvel Div., Salisbury, Md.  
Wilson's Sons, Inc., Wm. M., 8th St. & Franconia Ave., Lansdale, Pa.

## LUBRICATORS, Stationary, High Pressure, Compressed Air

Aro Equipment Corp., Bryan, Ohio.  
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Gilbert & Barker Mfg. Co., West Springfield, Mass.  
Gray Co., 54 11th Ave., N. E., Minneapolis 13, Minn.  
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.  
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

## LUBRICATORS, Upper Cylinder

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.  
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.  
So-Lo Jack Co., Attleboro, Mass.  
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.  
United States Aviox Corp., 135 Maple St., Niles, Mich.  
White Automotive Products, Inc., 1604 Douglas Ave., North Providence 4, R. I. (Sole distributors, R. M. Hollingshead Co., 840 Cooper St., Camden 2, N. J.)

## LUGS, Solderless

(Covering advertisers only)

Burndy Corp., Omaton Div., Norwalk, Conn.

## MACHINES, Babbitting, Main Bearing & Connecting Rod

Freeport Machine Works, 120 E. Main St., Freeport, Ill.  
Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Connecting rod.)

## MACHINES, Bonding, Cracked Cylinders

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.  
Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)  
Moguloid Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. (Arc.)

## MACHINES, Boring, Main Bearing, Connecting Rod and Camshaft

(See also Reamers, Main Bearing and Connecting Rod)

Ameco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Main and camshaft bearing.)  
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. (Main bearing.)  
Ex-Cell Corp., 1200 Oakman Blvd., Detroit 83, Mich.  
Fulmer Co., C. Allen, 1211 First National Bank Bldg., Cincinnati, Ohio.  
Lemco Products, Inc., 6490 Dunham Rd., Bedford, Ohio. (Main and camshaft bearing.)  
Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.  
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex. (Connecting rod bearing.)  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.  
Tobin-Arp Mfg. Co., 6400 Penn Ave., S., Minneapolis 23, Minn.  
Winona Tool Mfg. Co., 1430 W. Broadway Winona, Minn.

## MACHINES, Boring, Piston Pin Bushing

Cedar Rapids Engrg. Co., 902 N. 17th St., Cedar Rapids, Iowa.  
Ex-Cell-O Corp., 1200 Oakman Blvd., Detroit 32, Mich.  
Tobin-Arp Mfg. Co., 6400 Penn Ave., S., Minneapolis 23, Minn.

## MACHINES, Brake Relining

Barrett Equipment Co., 2101 Cass Ave., St. Louis, Mo.  
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) (Reliners and rivet setters, combination deliner, reliner and grinder, etc.)  
Dixie-Jibo Co., 2004 Mullanphy St., St. Louis 6, Mo.  
Grigg Specialty Tools, 8103 Marbisa Ave., Huntington Park, Calif.  
National Rivet & Mfg. Co., Waupun, Wis.  
Rawhide Products Co., Michigan Ave., Kenilworth, N. J.  
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.  
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 47, Calif. (Combination brake lining and brake shoe grinding.)  
Star Machine & Tool Co., 201 Sixth St., S. E., Minneapolis 14, Minn.  
Wilson, Inc., K. R., Arcade, N. Y.

## MACHINES, Clutch Rebuilding

(See also Tools, Clutch Alignment)

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.  
Borg-Warner Service Parts Co., 210 S. Michigan Ave., Chicago 4, Ill.  
Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.  
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.  
Van Norman Co., Springfield 7, Mass.  
Westbrook Industries, Inc., 140 Malvern St., Newark 5, N. J. (Bonding oven and related equipment.)

## MACHINES, FRONT END & AXLE ALIGNMENT, See Gages, Wheel & Axle Alignment

## MACHINES, Piston Turning and Grinding

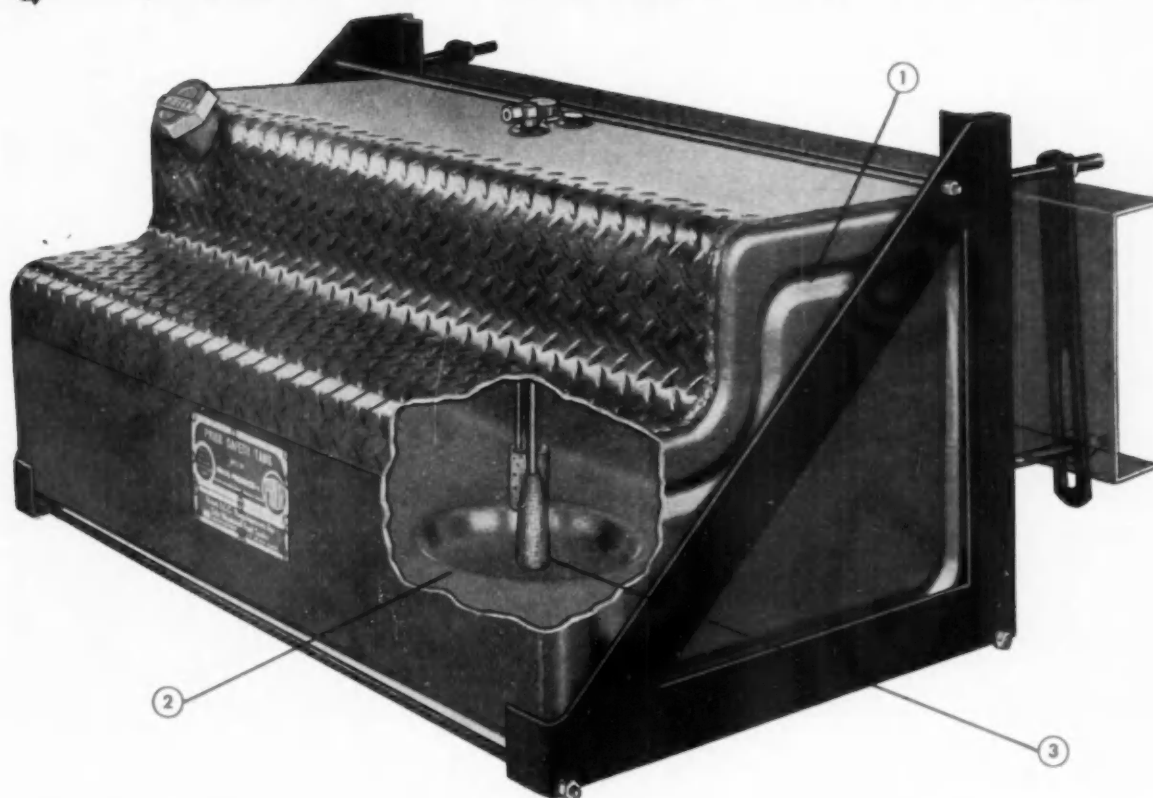
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa.  
Landis Tool Co., Sixth & Church St., Waynesboro, Pa. (Grinding.)  
Store-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.  
Van Norman Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.

## MAGNESIUM ALLOYS

Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.  
Dow Chemical Co., 919 Jefferson Ave., Midland, Mich. (Bars, rods, shapes, sheet and plate.)



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CCJ's Product Directory

### MAGNESIUM ALLOYS—continued

Federated Metals Div. American Smelting & Refining Co., 120 Broadway, New York 8, N. Y.  
Niagara Falls Smelting & Refining Div. Continental Copper & Steel Industries, Inc., 2204 Elmwood Ave., Buffalo 23, N. Y.  
Wellman Bronze & Aluminum Co., 12800 Shaker Blvd., Cleveland 20, Ohio.

### MAGNETOS

American Bosch Div., American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.  
Fairbanks Morse & Co., Magneto Div., Beloit, Wis.  
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y.  
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

### MANIFOLDS, Intake and Exhaust

Almquist Engrg. Co., Milford, Pa. (Dual intake.)  
Continental Motors Corp., Muskegon 82, Mich.  
Detroit Gasket & Mfg Co., 12640 Burt Rd., Detroit, Mich.  
Edelbrock Equipment & Co., 4921 W. Jefferson Blvd., Los Angeles, Calif. (Special intake.)  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Tube Manifold Corp., 415 Bryant St., North Tonawanda, N. Y.  
Weiland Power & Racing Equip., 2733 San Fernando Rd., Los Angeles 65, Calif.

### MANUAL, Diesel

Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

### MAPS

Hearne Bros., National Bldg., Detroit 26, Mich.

### MASKING, Liquid

Adhere Inc., 1220 Maple Ave., Los Angeles 15, Calif.  
Briggs Mfg. Co., 3675 E. Outer Drive, Detroit 34, Mich.  
Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo.  
Dextr Chemical Industries, Inc., Box 501, Detroit 32, Mich.  
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.  
Hanson-Van Winkle-Munning Co., Matawan, N. J.  
Ken-nite Co., 2936 Hancock Ave., W., Detroit 8, Mich.  
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.  
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich.  
Permo Products Co., 1629 Platte St., Denver 2, Colo.  
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.  
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.  
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.  
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich.  
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.

### MASKING, Tape

Behr-Manning Corp., 5156 Howe St., Troy, N. Y.  
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.  
Chicago Show Printing Co., Mystik Adhesive Div., 2635 N. Kildare Ave., Chicago 39, Ill.  
Continental Tapes, P. O. Box 266, Cayce, S. C.  
Industrial Tape Corp., New Brunswick, N. J.  
Hampton Mfg. Co., Industrial Tape Div., 111 Cedar St., New Rochelle, N. Y.  
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.  
Permacel Tape Corp., U. S. Highway #1, New Brunswick, N. J.  
Seamless Rubber Co., 253 Hallock Ave., New Haven 2, Conn.  
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.

### MASKS, Lettering

Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.

METALIZING EQUIPMENT, See *Sprayers, Molten Metal*

### METERS, Air Tower, Automatic

Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.  
Gilbert & Barker Mfg. Co., West Springfield, Mass. (Automatic.)  
Romort Mfg. Co., Oakfield, Wis.  
Wood Co., John, Bennett Pump Div., Broadway & Wood Sts., Muskegon, Mich.

### METERS, Brake Testing

American Instrument Co., Silver Springs, Md.  
Bennett-Ferguson 1408 Jerome St., Niles, Mich.  
Tapley Products, 53 Park Place, New York 7, N. Y.

### METERS, Engine Hour

(Advertisers Only)

John W. Hobbs Corp., 2075 Yale Blvd., Springfield, Ill.

### METERS, Exhaust Smoke

Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.

### MICROMETERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.  
Ammco Tools, Inc., 2130 Commonwealth Ave., North Chicago, Ill. (Brake drum.)  
Automatic Service Tools, Inc., 700 Sheridan St., Lansing 6, Mich. (Crankshaft and brake drum.)  
Bath & Co., John, 15 Grafton St., Worcester 8, Mass. (Internal.)  
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.  
Central Tool Co., 456 Wellington Ave., Cranston 10, R. I.  
Do All, 254 N. Laurel Ave., Des Plaines, Ill.  
Federal-Mogul Service, Detroit 13, Mich. (Crankshaft gage.)  
Federal Products Corp., 1144 Eddy St., Providence 1, R. I. (Indicating.)  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Crankshaft, inside, outside, etc.)  
Millers Falls Co., Greenfield, Mass.  
National Acme Co., 170 E. 131st St., Cleveland 8, Ohio.  
Pratt & Whitney, Charter Oak Blvd., West Hartford, Conn.  
Rimat Gage Co., 21 W. Dayton St., Pasadena 2, Calif. (Inside.)  
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.  
Starrett Co., L. S., 1 Crescent St., Athol, Mass.  
Swedish Gage Co. of America, 10641 Haggerty Ave., Dearborn, Mich.  
Van Keuren Co., 176 Waltham St., Watertown, Mass. (Light wave.)

### MIRRORS, Panel, Bus

Acme Specialty Mfg. Co., 2296 Smead Ave., Toledo 6, Ohio.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Standard Mirror Co., 141 Milton St., Buffalo 10, N. Y.

### MIRRORS, Rear View

Anderson Co., 1075 Grant St., Gary 40, Ind.  
Anthes Force Oilier Co., Fort Madison, Iowa. (West Coast type.)  
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill.  
Arrow Safety Devices Co., Mt. Holly, N. J.  
Bolsar Corp., S. Main St., Cedar Falls, Iowa.  
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn.  
Cole Automotive Products Co., P. O. Box 56, Alfred St. Station, Detroit, Mich.  
"Defrosto" Mirrors, Inc., 11298 S. Alameda St., Lynwood, Calif.  
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.

Doray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.  
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.  
Grote Mfg. Co., Lafayette & Grandview Ave., Bellevue, Ky.  
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Libbey-Owens-Ford Glass Co., 608 Madison Ave., Toledo 3, Ohio.  
Prutman, Ted., 1606 E. 88th St., Los Angeles 2, Calif.  
Spartan Automotive Div. of Sparka-Withington Co., Jackson, Mich. (Outside truck.)  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. (Truck.)  
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

### MOLDS, Tire Recapping and Retreading

Bacon American Corp., 718 S. Elliott St., Muncie, Ind.  
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 1, Cal. (Sectional.)  
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.  
Heintz & Co., James C., 3738 W. 14th St., Cleveland 11, Ohio.  
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.  
MONORAILS—See *Cranes, Monorail*  
MOTOR OIL, See *Oils & Lubricants (Engine & Chassis)*

### MOTORS, Starting, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
GMC Truck & Coach Div., General Motors Corp., 660 So. Blvd., E., Pontiac 11, Mich.  
Gardner-Denver Co., S. Front St., Quincy, Ill.  
Ingersoll Rand Co., 11 Broadway, New York 4, N. Y.  
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.

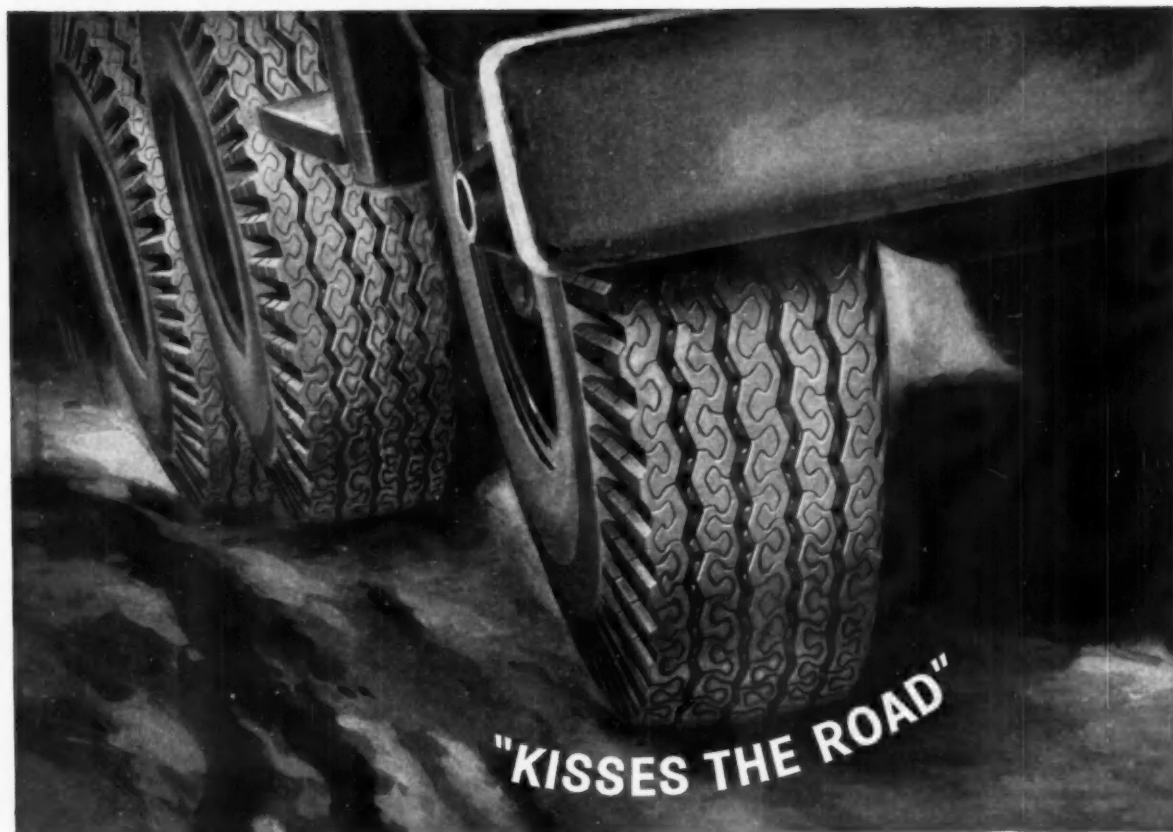
### MOTORS, Starting, Electric

American Bosch Div., American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.  
American Generator & Armature Co., 6100 W. Grand Ave., Chicago 39, Ill.  
Arrow Armatures Co., 15 Fordham Rd., Boston 34, Mass. (Rebuilt.)  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
General Armature & Mfg. Co., Box 370, Mill Hall, Penna.  
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.

### MOUNTINGS, Rubber, Insulated

Accurate Products Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. (Engine.)  
Atlantic India Rubber Works, Inc., 671 W. Polk St., Chicago 7, Ill.  
Bushings, Inc., 4358 Coolidge Highway, Royal Oak, Mich.  
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Engine, for Ford and Chevrolet cars.)  
Clevite Harris Products Inc., 6545 Carnegie Ave., Cleveland 3, Ohio. (Distributors to replacement trade, Clevite Service Inc., 6545 Carnegie Ave., Cleveland 3, Ohio.)  
Doan Mfg. Corp., 1761 London Road, Cleveland 12, Ohio.  
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
General Tire & Rubber Co., Industrial Products Div., Wabash, Ind.  
Goodrich Co., Industrial Prods., B. F., 500 S. Main St., Akron, Ohio. (Engine and radiator.)  
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.  
Loch & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Shear type.)  
Lorraine Mfg. Corp., 50 W. Hunter Ave., Maywood, N. J.  
M B Mfg. Co., 1060 State St., New Haven 11, Conn.

# NEW ARMSTRONG TIRE



## ROLLS 114,000 MI. BEFORE FIRST RECAP!

Rolling doesn't wear off rubber — scuffing does. Armstrong's new design checks scuffing, gives phenomenal mileage.

"114,000 miles over rugged Maine roads — and still good for a lot more!" That's typical of letters in our files testifying to the amazing mileage Armstrong's new Miracle S-D Tires run up — because they "kiss the road".

Tire engineers have long known that so long as a tire *rolls* freely, tread wear is negligible. But when design causes rubber to be dragged, even a fraction of an inch, scuffing causes rapid wear.

Miracle S-D Armstrong Tires lick scuffing two exclusive, patented ways. Interlocking sipes let the tread *kiss* the road hello and goodbye. And intratread bumpers (see diagram) permit deep-tread ribs that *can't* weave. Traction goes sharply UP; scuffing, slipping and skidding go sharply DOWN. Run your own test on these new tires that "kiss the road" — and revise your ideas of how long over-the-road tires can last.

Exclusive interlocking sipes grip road in all direction, yet "kiss" the road and leave it without *fore-and-aft* scuffing.



Exclusive intratread bumpers prevent deep tread from weaving under load or braking pressure, greatly reduce *side-to-side* scuffing.

### ARMSTRONG MIRACLE S-D TRUCK TIRES

The Armstrong Rubber Co., Home Office, West Haven, Conn.

# mufflers to oils and lubricants

CCJ's Product Directory

## MOUNTINGS—continued

Ohio Rubber Co., 300 Ben Hur Ave., Willsoughby, Ohio.  
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.  
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J.  
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.  
Rodie Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.  
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine).  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Wohler Corp., 700 E. Grand Ave., Lansing 5, Mich.

MUD, Flaps, See Guards, Splash

## MUFFLERS, Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. (To order.)  
Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hatboro, Pa. (To order.)  
Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind.  
Armco Steel Corp., 2586 Curtis St., Middletown, Ohio.  
Buffalo Pressed Steel Co., 460 N. Meridian Rd., Youngstown 9, Ohio.  
Caulkins Mufflers, P. O. Box 724, New London, Conn.  
Chrysler Motors Corp., MoPar Div., Detroit 31, Mich.  
Coachcraft Ltd., 9015 Santa Monica Blvd., Hollywood 46, Calif.  
Defiance Mfg. Co., Defiance, Ohio.  
De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.  
Donaldson Co., Inc., 666 Pelham Blvd., St. Paul 14, Minn.  
Douglas Muffler Mfg. Co., 5636 E. Shull St., Bell Gardens, Calif.  
Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.  
Goerlich's, 619 Smith St., Toledo 1, Ohio.  
Grand Automotive Prods., 2055 N. Ruby St., Melrose Park, Ill.  
Haviland Co., 1008 S. Jackson St., Arnold, Defiance, Ohio.  
Hayes Industries, Inc., Wildwood and Fern Aves., Jackson, Mich.  
Hill Mfg. Co., C. L., 210 South Ave., E. Grandford, N. J. (Vacuum, for trucks and tractors.)  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Lindy's, Inc., 3381 E. Olympia St., Los Angeles 46, Calif.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.  
MacKenzie Muffler Co., 460 N. Meridian Rd., Youngstown 9, Ohio.  
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Truck and bus.)  
Nelson Muffler Corp., Stoughton, Wis. (For buses, trucks and tractors.)  
Ohio Parts, Inc., 307 Perry St., Defiance, Ohio.  
Oldberg Mfg. Co., 620 N. Seventh St., Grand Haven, Mich.  
Oxy-Catalist, Inc., Wayne, Pa. (Catalist muffler for fork life truck.)  
Porter Muffler Mfg. Co., 11820 W. Olympia Blvd., Los Angeles 64, Calif.  
Powell Muffler Co., 2501 W. 24th St., Chicago 8, Ill.  
Pratt Industries, Inc., 1600 S. Ashland Ave., Chicago 8, Ill.  
Riker Mfg. Inc., 4901 Stickney Ave., Toledo 12, Ohio. (For trucks and buses.)  
Southern California Muffler Co., 11039 Washington Blvd., Culver City, Calif.  
Tech Galvanizer Muffler, 679 Oakland Park Ave., Columbus, Ohio.  
Walker Mfg. Co. of Wis., 1201 Michigan Ave., Racine, Wis. (Individually tuned.)

## NOZZLES, Air

(See also Chucks, Air, Tire Inflating)

Aero-Motive Mfg. Co., 1808 Alcott St., Kalamazoo 24, Mich.

Amseco, Inc., 145 S. Monterey Ave., Villa Park, Ill.  
Aro Equipment Corp., Bryan, Ohio.  
Barmotive Products, Inc., 440 Peralta Ave., Sanleandro, Calif.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.  
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.  
Clements Mfg. Co., 6650 S. Narragansett Ave., Chicago, Ill.  
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.  
Diamond-U Products, 3459 Dearborn Ave., South Gate, Calif.  
Druze Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Cal.  
Dutton-Lamson Co., Mfg. Div., Hastings, Neb.  
Electric Sprayit Div., Thomas Industries, Inc., 14th & Illinois Sts., Sheboygan, Wis.  
Gilmour Mfg. Co., Center Ave., Somerset, Pa.  
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.  
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Koehler Rubber & Supply Co., 3565 Carnegie Ave., Cleveland 15, Ohio.  
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Lonn Mfg. Co., 131 E. New York St., Indianapolis 6, Ind.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.  
Pasache Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.  
Planet Metal Products Corp., 964 Dean St., Brooklyn 38, N. Y.  
Purfex Mfg. Co., Box 118, Collegeville, Pa.  
Romort Mfg. Co., Oakfield, Wis.  
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.  
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.  
Superior Pneumatic & Mfg., Inc., 4758 Warner Rd., Cleveland 25, Ohio.  
Thomas Industries, Inc., Electric Sprayit Div., 14th & Illinois Sts., Sheboygan, Wis.  
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

## NOZZLES, Fuel

Buckeye Iron & Brass Works, Dept. C, Box 883, Dayton 1, Ohio.

## NOZZLES, PAINT SPRAY, See Sprayers, Paint, Varnish and Lacquer

## NUTS, Lock and Self-Locking

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Allen Mfg. Co., 133 Sheldon St., Hartford 2, Conn.  
Automatic Nut Corp., 16th & Willow Sts., Lebanon, Pa.  
Boots Aircraft Nut Corp., Newton Turnpike, Norwalk, Conn. (Self-locking.)  
Boss Bolt & Nut Co., 3403 W. 47th, Chicago 32, Ill.  
Canady-Wiley Mfg. Co., 1517 S. Evergreen St., Los Angeles 23, Calif. Carr Fastener Corp., 31 Ames St., Cambridge, Mass. (Safety ring.)  
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.  
Delron Co., 5224 Southern Ave., South Gate, Calif. (Self-locking high temperature for manifolds, superchargers, etc.)  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Eaton Mfg. Co. (Reliance Spring Washer Div.), Massillon, Ohio.  
Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N. J. (Self-locking.)  
Greer Stop Nut Co., 2622 W. Flournoy St., Chicago 12, Ill.  
Gries Reproducer Corp., Beechwood Rd. & Second St., New Rochelle, N. Y. (Nylon insert.)  
Grip Nut Co., South Whitney, Ind.  
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.

Lamson & Sessions Co., 1071 W. 85th St., Cleveland 2, Ohio.  
MacLean-Fogg Lock Nut Co., 5535 N. Walcott Ave., Chicago 40, Ill.  
National Machine Products Co., 44226 Utica Rd., Utica, N. Y.  
National Screw & Mfg. Co., 2440 E. 76th St., Cleveland 4, Ohio.  
Nylork Corp., 611 Industrial Ave., Paramus, N. J. (Licenses.)  
Palnut Co., 54 Glen Rd., Mountainside, N. J. (Combination lock washer and nut.)  
Prestole Corp., 1351 Miami St., Toledo 5, Ohio.  
Republic Steel Corp., Republic Bldg., Cleveland, Ohio. (Licenses.)  
Russell, Burdall & Ward Bolt & Nut Co., Fort Chester, N. Y. (Licenses.)  
sKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa. (Lock.)  
Security Locknut Corp., 1800 N. 15th Ave., Melrose Park, Ill.  
Shakeproof Div. of Illinois Tool Works, St. Charles Rd., Elgin, Ill.  
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.  
Standard Locknut & Lockwasher Co., 2250 Valley Ave., Indianapolis 18, Ind. (For ball and roller bearings.)  
Standard Pressed Steel Co., Jenkintown, Pa. (Self-locking.)  
Thompson-Bremer & Co., 520 N. Dearborn St., Chicago 10, Ill.  
Tinnerman Products, Inc., 8700 Brookfield Rd., Cleveland 13, Ohio. (Self-locking.)  
Towand Co., New Brighton, Pa.  
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.  
Walder-Kohinoor, Inc., 47-16 Austel Pl., Long Island City 1, N. Y.  
Waterbury Pressed Metal Co., 300 Chase Ave., Waterbury, Conn.  
Whittet-Hirgins Co., P. O. Box 1613, Providence 1, R. I. (Lock, for ball and roller bearings.)

## ODOMETERS

(See also Speedometer)

Barbour-Stockwell Co., 205 Broadway, Cambridge 39, Mass.  
Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.  
Knopf Instrument Co., 250 Culver Ave., Jersey City 5, N. J.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill.  
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.  
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.

## OIL ANALYSIS KITS

Gerin Corp., P. O. Drawer 653, Red Bank, N. J.  
Shell Oil Co., 50 West 50th St., New York 20, N. Y.  
Wicks Accessories Corp., Gastonia, N. C.

OILS, CRANKCASE, ADDITIVES, See Compounds, Crankcase, Sludge Removing

## OILS AND LUBRICANTS, Engine and Chassis

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.  
Cities Service Oil Co., 60 Wall Tower, New York, N. Y.  
California Co., Denver 1, Colo.  
California Oil Co., Perth Amboy, N. J.  
Climax Molybdenum Co., 500 Fifth Ave., New York 36, N. Y.  
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.  
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.  
D-X Sunray Oil Co., 907 S. Detroit Ave., Tulsa 2, Okla.  
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.  
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.  
Fiske Brothers Refining Co., Lubriplate Div., Newark 5, N. J.  
Freedom-Valvoline Oil Co., Freedom, Pa.  
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa. (Also motor flush.)  
Kendall Refining Co., 77 N. Kendall St., Bradford, Pa.  
Lion Oil Co., El Dorado, Ark.  
Lubrication Engineers, Inc., Fort Worth, Texas.  
Lubriplate Div., Fiske Brothers Refining Co., Newark 5, N. J.





# ECO Tireflators

save **tires,**  
**time,**  
**money**

Accurate tire pressure makes tires last longer and cuts fleet operating costs. ECO Tireflators inflate to the precise pressure you select *automatically*. They save labor costs too. There is no "inflate and check" and no time lost hunting for misplaced gauges because no gauges are needed.

Wall or post and remote control models for ceiling installation let you put ECO Tireflators wherever they will be most convenient.

ECO Islanders® supply both automatic tire inflation and water from one unit.

Precision built to provide long life, maximum accuracy and low maintenance cost.

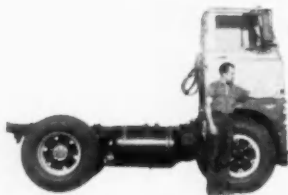
## JOHN WOOD COMPANY

Bennett Pump Division • Muskegon, Michigan

IN CANADA: JOHN WOOD COMPANY LIMITED

Toronto • Montreal • Winnipeg • Vancouver





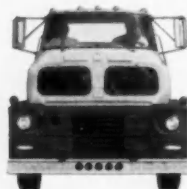
**Load!** 48 inches from bumper to back of cab. You haul up to 224 cubic feet more legal payload — more than any other truck in its weight class — from city to city or coast to coast.



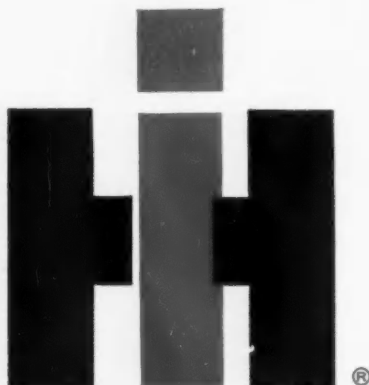
**Lift!** New pushbutton hydraulic lift tilts cab in less than 30 seconds. There's matchless engine accessibility. Service is easier, faster. You cut maintenance costs and down time.



**Go!** New V-8 power. Three all-new, all-truck V-8's to 257 hp. — up to 45 horsepower more than any other make. The payoff: more go with less shifting, tight-fisted economy, longer life.



**Look!** New visibility. See down 26 inches from bumper through two lower windshields for safer and easier city driving, plus high over-traffic vision. 1,708 sq. in. of forward vision!



INTERNATIONAL HARVESTER COMPANY, CHICAGO

Motor Trucks • Crawler Tractors  
Construction Equipment • McCormick®  
Farm Equipment and Farmall® Tractors

# NEW!...

**10% more payload capacity!**

**Shortest tilt cab, only 48 in. bumper-to-back-of-cab!**

**Unique new visibility!**

**Haul bigger payloads today and in the future!** Definite trends call for a *completely* different type of truck for profitable over-the-road hauling. Here it is — the new INTERNATIONAL® Sightliner!

With the 48-inch bumper-to-back-of-cab dimension you can pull the longest trailers or combinations, and operate with dromedary units. You get increased front axle loading, too. The short 28-inch bumper-to-front-axle dimension gives you maximum gross payloads under bridge formula restrictions . . . *everything* for the biggest payloads and biggest profits.



The INTERNATIONAL Sightliner tilt-cab tractor.  
GCW 50,000 to 65,000 pounds

*Fleet  
cost records  
prove*

## International



Trucks cost least to own!  
.....

# oils to paints

CCJ's Product Directory

## OILS, LUBRICANTS—continued

Mac Millan Petroleum Corp., 530 W. 6th St., Los Angeles 13, Calif.  
Mid-Continent Petroleum Corp., P. O. Box 381, Tulsa 2, Okla.  
Moly Motor Products Corp., 1155 Broadway, New York, N. Y.  
Ohio Oil Co., Findlay, Ohio.  
Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.  
Pennzoil Co., Oil City, Pa.  
Permatex Company, Inc., 300 Broadway, Huntington Station, New York, N. Y.  
Phillips Petroleum Co., Bartlesville, Okla.  
Pure Oil Co., 35 E. Wacker Dr., Chicago 1, Ill.  
Quaker State Oil Refining Co., Oil City, Pa.  
Shell Oil Co., 100 Bush St., San Francisco 6, Calif.  
Shell Oil Co., 50 W. 50th St., New York, N. Y.  
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.  
Socony Mobil Oil Co., Socony Mobil Bldg., 42nd & Lexington Ave., New York, N. Y.  
Sonneborn Sons, L., 300 Fourth Ave., Amalie Div., New York.  
Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.  
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill.  
Standard Oil Co. of Texas, El Paso, Texas.  
Sun Oil Co., 1608 Walnut St., Philadelphia, Pa.  
Texas Co., 135 E. 42nd St., New York, N. Y.  
Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.  
Union Oil Co. of Calif., Union Oil Bldg., Los Angeles 17, Calif.  
Valvoline Oil Co., Freedom, Pa.  
Warren Refining & Chemical Co., Cleveland 15, Ohio.  
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa.  
Wolf's Head Oil Refining Co., Oil City, Pa.

**OIL CANS, See Cans, Oiling**  
**OIL CHANGERS, See Drainers, Crankcase Oil**  
**OIL FILTERS, See Filters, Oil**  
**OIL AND GREASE ABSORBENTS (Floor), See Absorbents, Oil & Grease (Floor)**  
**OIL RECLAIMERS, See Reclaimers, Crankcase Oil**  
**OIL RETAINING RINGS & SEALS, See Retainers, Oil & Grease**  
**OIL TANKS, See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)**  
**OIL TESTING INSTRUMENTS, See Viscosimeters**  
**OILS, PENETRATING, See Rust Preventatives**  
**OILERS, UPPER CYLINDER, See Lubricators, Upper Cylinder**

## OILS, Upper Cylinder

Acheson Colloids Co., 1925 Washington Ave., Port Huron, Mich.  
Actane Chemical Co., 3617 Haverford Ave., Philadelphia 4, Pa.  
Alox Corp., Buffalo Ave., & Iriquois St., Niagara Falls, N. Y.  
Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.  
Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass.  
Bardahl Mfg. Corp., 1400 P. 62nd St., Seattle 7, Wash.  
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.  
Bell Laboratory, Inc., 2421 Kilgore St., Orlando, Fla.  
Bows "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.  
Castorol Products, Inc., 145 Alexander St., Yonkers 2, N. Y.  
Celco Corp., 110 E. 42nd St., New York 17, N. Y.  
Champion Products, Inc., P. O. Box 291, Stephenville, Texas.  
Cristy Chemical Corp., 21 Putnam Lane, Worcester 4, Mass.  
Curran Corp., S. Canal St., Lawrence, Mass.  
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.  
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y.  
Ensign Products Co., 3528 E. 76th St., Cleveland 6, Ohio.

Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.  
Feenom Laboratories, 521 Marion E. Taylor Bldg., Louisville 2, Ky.  
Friction Proof Oil Corp., 200 Fifth Ave., New York 10, N. Y.  
Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.  
Grafo Colloids Corp., Grafo Bldg., 310 Wilkes Place, Sharon, Pa.  
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.  
Gunk Chicago Co., 3447 W. Madison St., Chicago 24, Ill.  
Heat Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.  
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.  
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa.  
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.  
Kano Laboratories, 1000 S. Thompson Lane, Nashville 11, Tenn.  
Lubaid Co., 165 E. Kilborn St., Milwaukee 1, Wis.  
Lubri-Gas International, Inc., 221 N. La Salle St., Chicago 1, Ill.  
Magnus Chemical Co., 185 South Ave., Garwood, N. J.  
Mergraf Oil Products Co., P. O. Box 95, Northville, Mich.  
National Refining Co., 1808 Standard Bldg., Cleveland 1, Ohio.  
Octane Chemical Co., 3617 Haverford Ave., Philadelphia 4, Pa.  
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.  
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
Protektoil Corp., 601 W. 26th St., New York 1, N. Y.  
Purfer Mfg. Co., Box 118, Collegeville, Pa.  
Pyroil Co., 122 Main St., La Crosse, Wis.  
Radiator Specialty Co., 1400 W. Ind. Blvd., Charlotte 1, N. C.  
Randall Products Mfg. Co., 2095 Broadway, New York 23, N. Y.  
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa.  
Rust Master Chemical Corp., 50 Creighton St., Boston, Mass.  
Service Supply Co., 1115 Seventh St., Denver 2, Colo.  
Shaler Co., Waupun, Wis.  
Sonneborn Sons, Inc., L., Amalie Div., 300 Fourth Ave., New York 10, N. Y.  
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill.  
Stewart-Warner Corp., Alemite Corp., 1826 Diversey Pkwy., Chicago 14, Ill.  
Swan-Finch Oil Co., 338 Hudson St., Hackensack, N. J.  
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
U. S. Chemical & Supply Co., 915 E. Fifth St., Kansas City 16, Mo.  
United States Avex Co., 1350 Maple St., Niles, Mich.  
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.  
Warehouse Distributors Co., 3810 N. 19th St., Phila. 40, Pa.  
Warren Refining & Chemical Co., 750 Prospect Ave., Cleveland 15, Ohio.  
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y.  
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 6, N. J.  
White & Bagley Co., 100 Foster St., Worcester, Mass.  
Wilbur & Williams & Co., 130 Lincoln St., Brighton, Mass.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.  
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

## OPENERS, Bus Door

Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.  
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.  
Consolidated Metal Products Corp., 413 N. Pearl St., Albany, N. Y. (Pneumatic electric and hydraulic.)  
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., 2734 Tennyson Rd., Cleveland 4, Ohio. (Manual.)  
Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich. (Air and electro-pneumatic.)

National Pneumatic Co., 125 Amory St., Boston 19, Mass.

## PACKERS, Bearing

Aro Equipment Corp., Bryan, Ohio.  
Bennett-Feragen, 1408 Jerome St., Miles, Mich.  
Gray Co., 54 11th Ave., N. E. Minneapolis 13, Minn.  
Lincoln Engineering Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill.  
Turk Co., Wm., 11070 S. Alameda St., Lynwood, Calif.

## PADS, Pedal

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
American Automatic Devices Co., Harrison, Throop & Congress Sts., Chicago 7, Ill. (Brake & clutch.)  
American Felt Co., Glenville, Conn.  
Anchor Rubber Products Inc., 1725 London Rd., Cleveland 12, Ohio.  
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.  
Doan Mfg. Corp., 1761 London Rd., Cleveland 12, Ohio.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.  
Kraev Mfg. Corp., 273 Van Sinderen Ave., Brooklyn 7, N. Y.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Monarch Rubber Co., Hartsville, Ohio.  
Moore & Co., Samuel, Mantua, Ohio.  
Ohio Rubber Co., 300 Ben Hur Ave., Wiloughby, Ohio.  
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte, N. C.  
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

**PAINT MASKING, See Masking, Liquid and Tape**  
**PAINT SPRAY BOOTHS, See Booths, Spraying (Paint and Varnish)**  
**PAINT SPRAYERS, See Sprayers, Paint**  
**PAINT REMOVERS, See Removers, Paint Enamel and Varnish**  
**PAINTS, See Enamels; also Lacquer**

## PAINTS, Acid-Resisting

Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn.  
Hock Paint, Inc., Box 190, Phoenixville, Pa.  
Lithgow Co., Inc., James, Los Angeles 22, Cal. (Plastic coating.)  
Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.  
Quigley Co., 415 Madison Ave., New York 17, N. Y.  
Sauereisen Cements Co., Sharpsburg Sta., Pittsburgh 15, Pa.  
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.  
Stonhard Co., 1306 Spring Garden St., Philadelphia 23, Pa.  
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

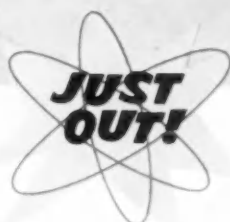
## PAINTS, Alkali-Resisting

Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.  
Quigley Co., 415 Madison Ave., New York 17, N. Y.  
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.  
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

## PAINTS, Aluminum and Bronze

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa. (Pigments for aluminum paint.)  
Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.  
Aro Co., 7301 Bessemer Ave., Cleveland 27, Ohio.  
Battenfield Grease & Oil Corp., 3148 Roanoke Rd., Kansas City 8, Okla. (Aluminum.)  
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.





## All-new '58

# DODGE *PowerGiants*

## 4-WAY LEADERS OF THE LOW-PRICED 3

Now—for the first time in truck history—one make leads the low-priced three *all four ways!* And that make is DODGE—all new for 1958!

From the future comes Dodge styling — handsome, sweeping, prestige-winning lines, richly trimmed in sparkling chrome.

From 40 years of truck experience comes remarkable engineering advances . . . outstanding performance, load capacities and economy.

See these great new trucks soon. And be sure to get your Dodge dealer's special 40th-anniversary deal before you buy any other make!

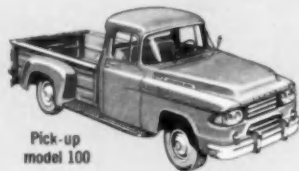
- 1 FIRST IN PAYLOAD!** Advanced construction gives extra strength *without* extra weight, lets you haul up to  $\frac{1}{3}$  more, cut down on trips.
- 2 FIRST IN POWER!** New 204- to 234-hp. *Power Giant* V-8's! Extra power cuts trip time, lets you pass more safely, reduces engine strain.
- 3 FIRST IN ECONOMY!** Most advanced of all V-8 truck engines. Exclusive Power-Dome combustion increases gas mileage, cuts upkeep costs.
- 4 FIRST IN STYLING!** All-new design! Deluxe chrome grille and trim . . . modern dual headlights . . . future-inspired lines . . . smart new colors.

TURN PAGE FOR FULL-LINE STORY →

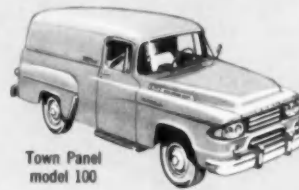
# There's a '58 DODGE *PowerGiant*

for every job...for every business...for every pocketbook

## Low-tonnage models



Pick-up  
model 100



Town Panel  
model 100



Town Wagon  
model 100



Forward-Control  
model P300

## Medium-tonnage models



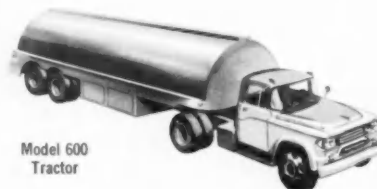
Model 400  
Van Body



Model 500—Stake

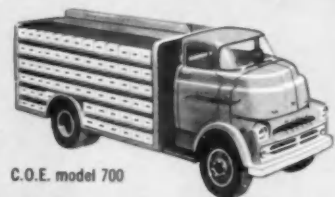


Four-Wheel-Drive  
W500  
Chassis



Model 600  
Tractor

## Heavy-duty models



C.O.E. model 700



Model 900—  
Tractor



Model T800—  
Mixer Body



Model T900—  
Dump Body

## CONDENSED SPECIFICATIONS

### CONVENTIONAL MODELS

G.V.W. Range  
4,250 lbs. to 9,000 lbs.  
Engines  
120-hp. 6-cylinder  
204-hp. V-8

### 4-WHEEL-DRIVE MODELS

G.V.W. Range  
5,100 lbs. to 10,000 lbs.  
Engines  
113- 120- 125-hp. 6-cyl.  
204-hp. V-8  
204-hp. V-8 (Heavy-Duty)

### FORWARD-CONTROL MODELS

G.V.W. Range  
6,000 lbs. to 9,000 lbs.  
Engines  
120-hp. 6-cylinder  
204-hp. V-8

### CONVENTIONAL MODELS

G.V.W. Range—11,000 lbs. to 22,000 lbs.  
Engines—125- 130- 141-hp. 6-cyl.  
204- (H.D.) 207-hp. V-8's

### C.O.E. MODELS

G.V.W. Range—15,000 lbs. to 22,000 lbs.  
Engines—204- (H.D.) 207- 218-hp. V-8's

### 4-WHEEL-DRIVE MODELS

G.V.W. Range—15,000 lbs. to 20,000 lbs.  
Engines—130-hp. 6-cylinder  
204- (H.D.) 207-hp. V-8's

### SCHOOL BUS MODELS

G.V.W. Range—10,500 lbs. to 22,000 lbs.  
Engines—125- 130- 141-hp. 6-cyls.  
204- (H.D.) 207-hp. V-8's

### FORWARD-CONTROL MODELS

G.V.W. Range—7,500 lbs. to 15,000 lbs.  
Engines—120-hp. 6-cylinder  
204-hp. V-8

### CONVENTIONAL MODELS

G.V.W. Range  
18,500 lbs. to 30,000 lbs.  
Engines  
218- 224- 234-hp. V-8's

### C.O.E. MODELS

G.V.W. Range  
18,500 lbs. to 25,000 lbs.  
Engines  
218-hp. V-8

### TANDEM MODELS

G.V.W. Range  
26,000 lbs. to 46,000 lbs.  
Engines  
218- 224- 234-hp. V-8's

### SCHOOL BUS MODELS

G.V.W. Range  
17,500 to 23,000 lbs.  
Engines  
218-hp. V-8

CCJ's

PAINTS-

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## PAINTS—continued

Forbes Finishes Div., Pittsburgh Plate Glass Co., 2806 W. 148th St., Cleveland 11, Ohio. (Aluminum.)  
 Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 12, Minn. (Aluminum.)  
 Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.  
 Interstate Enamel & Varnish Co., 323 W. 15th St., Indianapolis, Ind.  
 Modene Paint Co., 305 Eastern Ave., Chelsea 50, Mass.  
 Morris Paint & Varnish Co., 1828 Washington Ave., St. Louis 3, Mo. (Aluminum.)  
 Plastic-Kote, Inc., 9801 Harvard Rd., N.W., Cleveland 8, Ohio. (Aluminum.)  
 Reynolds Metals Co., 3rd and Grace Sts., Richmond 19, Va. (Aluminum pigment powders and paste.)  
 Sheffield Bronze Paint Corp., 17814 Waterloo Rd., Cleveland 19, Ohio.  
 Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

## PANELS, Plywood

Evans Products Co., 13101 Eckles Rd., Plymouth, Mich.  
 Georgia-Pacific Plywood Co., 500 N. Capitol Way, Olympia, Wash.  
 Harbor Plywood Corp., Box 940, Aberdeen, Wash. (Douglas fir.)  
 Maskette Mfg. Corp., 701 Ann St. N.W., Grand Rapids 2, Mich. (Laminated, resin-faced, metal-covered, laminated plastic faced.)  
 Met-L-Wood Corp., 6755 W. 66th St., Chicago 58, Ill. (Metal covered.)  
 Technical Ply-Woods Sales, 6756 Crandon Ave., Chicago 49, Ill.  
 United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., New York 18, N. Y.

PANELS, STEEL, See Steel, Sheet, and Body Parts, Pre-Shaped

## PARTS, Brake

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
 Aero Mfg. & Machining Co., 2724 Ninth Ave., Muskegon Heights, Mich. (Hydraulic.)  
 Anderson Co., O. L., 1347 E. Fort St., Detroit 2, Mich.  
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
 Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind. (Hand control for vacuum braking.)  
 Bendix Westinghouse Automotive Air Brake Co., 991 Cleveland Road, Elmira, Ohio. (Air conversion kits.)  
 Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.  
 Brake Parts Specialty, 1914 W. Washington Blvd., Los Angeles 18, Calif. (Wheel cup expanders.)  
 Chrysler Corp., Box 1658, Detroit 31, Mich.  
 Eis Automotive Corp., Middletown, Conn. (Hydraulic and mechanical; also master and wheel cylinders.)  
 Fawick Brake Div., Fawick Corp., 9921 Clinton Rd., Cleveland 11, Ohio. (Master cylinder.)  
 General Tire & Rubber Co., Industrial Prods. Div., Wabash, Ind. (Hydraulic.)  
 Gilpak Automotive Products Div. of Packer Auto Parts, Inc., Roselle, N. J. (Hydraulic.)  
 Goshen Rubber Co., 609 E. Iowa St., Goshen, Ind. (Hydraulic cups and boots.)  
 Hydraulic Specialties Co., 819 E. Ferry St., Buffalo 11, N. Y. (Hydraulic pressure limiting valves.)  
 Judson Rubber Works, Inc., 4107 W. Kinzie St., Chicago 24, Ill. (Hydraulic rubber.)  
 Kelsey-Hays Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Vacuum power brake valves and chambers.)  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)  
 Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Cylinder cups.)  
 Lorraine Mfg. Corp., 60 W. Hunter Ave., Maywood, N. J. (Hydraulic brake rubber cups, boots; also hydraulic valves.)  
 Master Parts Div. of Airtex Products, Inc., Fairfield, Ill. (Hydraulic master and wheel cylinders.)  
 Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich. (Air and vacuum conversion valve kits.)

Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.  
 Moraine Products, Div. of General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. (Wheel and master cylinders.)  
 Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. (Hydraulic master wheel cylinder assemblies.)  
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Hydraulic.)  
 Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 26, Ill. (Hydraulic.)  
 Otto Items, Inc., 1209 Reco Ave., Kirkwood 22, Mo. (Hydraulic brake, master and wheel cylinders.)  
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
 Power Brake Equipment Co., 1632 S.E. 11th Ave., Portland 14, Ore.  
 Preferred Electric & Wire Co., Bush Terminal Bldg., 225, Brooklyn 28, N. Y.  
 Raybestos-Mahattan, Inc., Equip. Sales Div., Stratford, Conn.  
 Supco Div., Lisle Corp., 805 E. Main St., Clarinda, Iowa. (Master and wheel cylinders, etc.)  
 Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Diaphragm.)  
 United Metal Craft Co., 800 Lowell St., Ypsilanti, Mich.  
 United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (Cylinders.)  
 Vari-Products Co., 2490 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)  
 Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis. (Vacuum power and air, for trucks and trailers.)  
 Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Master cylinders.)  
 Weatherhead Co., 128 W. Washington Blvd., Fort Wayne, Ind.  
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. (Hydraulic.)

PARTS, CARBURETOR, See Carburetor Parts

## PARTS, Clutch

Accurate Parts Mfg. Co., 1690 S. Ashland Ave., Chicago 8, Ill. (Pressure assembly component parts.)  
 Automotive Research & Mfg. Co., RFD No. 2, Pomfret Center, Conn.  
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (For assemblies, etc.)  
 Elgin Machine Works, 412 N. State St., Elgin, Ill.  
 Lempop Products, Inc., 5499 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempop Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y.  
 Merit Products Co., 121 W. Florence Ave., Los Angeles 3, Calif. (Sleeves.)  
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.  
 Perfection Gear Co., 162nd St. & Vincennes Ave., Harvey, Ill. (Clutch cover assembly parts.)  
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
 Rockford Clutch Div. Borg-Warner Corp., 1819-18th Ave., Rockford, Ill.  
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

PARTS, DISTRIBUTOR, See Parts, Magneto, Coil and Distributor

## PARTS, Front End Suspension

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.  
 Bashian & Sons Co., Henry, 28093 Pontiac Trail S., Lyon, Mich.  
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.  
 Chrysler Corp., Box 1658, Detroit 31, Mich.  
 Elgin Machine Works, 412 N. State St., Elgin, Ill.  
 Ertel Products Corp., Div. of Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.  
 Gilpak Automotive Products, Div. of Packer Auto Parts, Inc., Roselle, N. J.  
 Hershey Products, Inc., Derby 2, Conn.  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.  
 McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.

Merrill Engineering Laboratories, 1230 Lincoln St., Denver 2, Colo. (Knee action coil springs.)  
 Moog Industries, 6650 Easton Ave., St. Louis 14, Mo.  
 Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.  
 Parts Mfg. Co., 311 W. 66th St., New York 28, N. Y.  
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
 Republic Engrg. & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.  
 Rowland, Inc., William & Harvey, 1414 Fairmount Ave., Philadelphia 30, Pa.  
 Saginaw Steering Gear, Div. of General Motors Corp., 3900 Holland Rd., Saginaw, Mich.  
 Thompson Products, Inc., 2355 Euclid Ave., Cleveland 17, Ohio.  
 Toledo Steel Products Div. Thompson Products, Inc., 3500 Summit St., Toledo 11, Ohio.  
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

## PARTS, Fuel Pump

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind. (Push rods.)  
 Airtex Automotive Div. of Airtex Products, Inc., Fairfield, Ill.  
 Alloy Mfg. Co., 3202 S. Shields Ave., Chicago 16, Ill.  
 American Motor Products Co., Fond du Lac, Wis.  
 Chrysler Corp., Box 1658, Detroit 31, Mich.  
 Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.  
 Kem Mfg. Co., 20-21 Dugan Rd., Fair Lawn, N. J.  
 Master Parts Div. of Airtex Products, Inc., Fairfield, Ill.  
 Mica Insulator Co., Broadway, Schenectady, N. Y. (Diaphragms.)  
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
 P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.  
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y. (Diaphragms, etc.)  
 Simmons Mfg. Co., Ashland, Ohio.  
 United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For A. C. pumps.)

## PARTS, Generator

International Products & Mfg. Co., 1462 S. Michigan Ave., Chicago 8, Ill.  
 Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
 Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
 V-J Industries, Inc., 720 E. Washington St., Indianapolis, Ind.  
 Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.

PARTS, LIST, See List, Parts

## PARTS, Ignition

(See also Coils, Condensers, Distributors, Points (Ignition))  
 American Hard Rubber Co., Div. Amerace Corp., Ace Rd., Butler, N. J.  
 American Motor Products Co., Fond du Lac, Wis. (Distributor rotors.)  
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
 D.S.M. Electric Co., 6200 Hamilton Ave., Detroit 2, Mich.  
 Delco-Remy Div., General Motors Corp., Anderson, Ind.  
 Echlin Mfg. Co., U. S. Route 1, Branford, Conn.  
 Electric Auto-Lite Co., Parts & Service Div., Toledo 1, Ohio. (Distributor caps and rotors.)  
 F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Distributor caps and rotors.)  
 Gilpak Automotive Products Div. of Packer Auto Parts, Inc., Roselle, N. J. (Distributor rotors.)

## parts to pipes

### PARTS—continued

Gries Reproducer Corp., Beechwood Ave. & Second St., New Rochelle, N. Y. (Nylon distributor parts.)  
 Guaranteed Parts Co., Seneca Falls, N. Y. (Rotors.)  
 Holley Carburetor Co., 11955 E. 9 Mile Rd., Van Dyke, Mich. (Caps & rotors.)  
 Igniter Co., 1635 El Camino Real, Redwood City, Calif.  
 Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.  
 Keystone Carbon Co., 1935 State St., St. Marys, Pa.  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Caps and rotors.)  
 M D Parts Mfg. Co., 4395 Olympic Blvd., Los Angeles, Calif. (Distributor caps and rotors.)  
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
 Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich. (Magneto.)  
 National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Coil and distributor.)  
 Niehoff & Co., C. E., 4925 Lawrence Ave., Chicago, Ill.  
 P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Distributor plates, caps, rotors, etc., sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.  
 Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)  
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
 Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill. (Distributor caps and rotors.)  
 Sorenson Mfg. Co., P. 32-31 57th St., Woodside 77, N. Y. (Distributor heads and rotors.)  
 Specialty Insulation Mfg. Co., Hoosick Falls, N. Y. (Distributor caps.)  
 Standard Motor Products, Inc., 27-18 Northern Blvd., Long Island City, L. I., N. Y.  
 Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.  
 Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J. (Caps and rotors.)  
 Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y. (Distributor.)  
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Distributor caps and rotors.)  
 Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y. (Distributor caps and rotors.)

### PARTS, Replacement

Allied Motor Parts Co., Detroit 1, Mich.  
 Chrysler Motors Corp., MoPar Div., 7900 Joseph Campau Ave., Detroit 31, Mich.  
 Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.  
 United Motors Service, General Motors Building, Detroit 2, Mich.

### PARTS, Starting Motor Drive

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
 American Motor Products Co., Fond du Lac, Wis.  
 Carston Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y. (Bolts and washers.)  
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
 Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y.  
 F & E Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
 Guaranteed Parts Co., Seneca Falls, N. Y.  
 International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.  
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
 Keystone Carbon Co., 1935 State St., St. Marys, Pa.  
 Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio. (Bolts.)  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 Lock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Screws.)  
 Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.

Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
 Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
 Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. (Springs.)  
 Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.  
 Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. (Springs, etc.)  
 United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio. (Washers.)  
 Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.  
 Van Bergen & Greener, Inc., 1619 N. Hoyne Ave., Chicago 47, Ill.  
 Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
 Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 575 Madison Ave., New York 22, N. Y. (Springs, bolts and washers.)

### PASSENGER CARS, Fleet

(Advertisers Only)  
 Plymouth Div. Chrysler Corp., 6334 Lynch Rd., Detroit 31, Mich.  
 Rambler Div. American Motors Corp., Detroit 32, Mich.

### PINS, King

Aircraft & Automotive Prods., Inc., 2501 S. West St., Wichita, Kan. (Bus.)  
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.  
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
 Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. (Trailer.)  
 Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill.  
 Bashan & Sons Co., Henry 40891 Grand River Ave., Farmington, Mich.  
 Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.  
 Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.  
 Cleveland Cap Screw Co., 2917 E. 79th St., Cleveland 4, Ohio.  
 Elgin Machine Works, 412 N. State St., Elgin, Ill. (Assemblies.)  
 Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.  
 Hershey Products, Inc., Automotive Parts Div., Derby 2, Conn.  
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis.  
 Kings County Centerless Grinding Co., 555 36th St., Union City, N. J.  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.  
 McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.  
 Moor Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
 Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.  
 Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.  
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.  
 Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.  
 Superior Machine Tool Co., 329 E. Firmin St., Kokomo, Ind.  
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
 Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
 Trayer Products, Inc., E. Clinton St., Elmira, N. Y.  
 Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
 Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich.

### PINS, King, Trailer

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.  
 Miller Industries, 213 E. Cortland St., Jackson, Mich.

## CCJ's Product Directory

### PINS, Piston

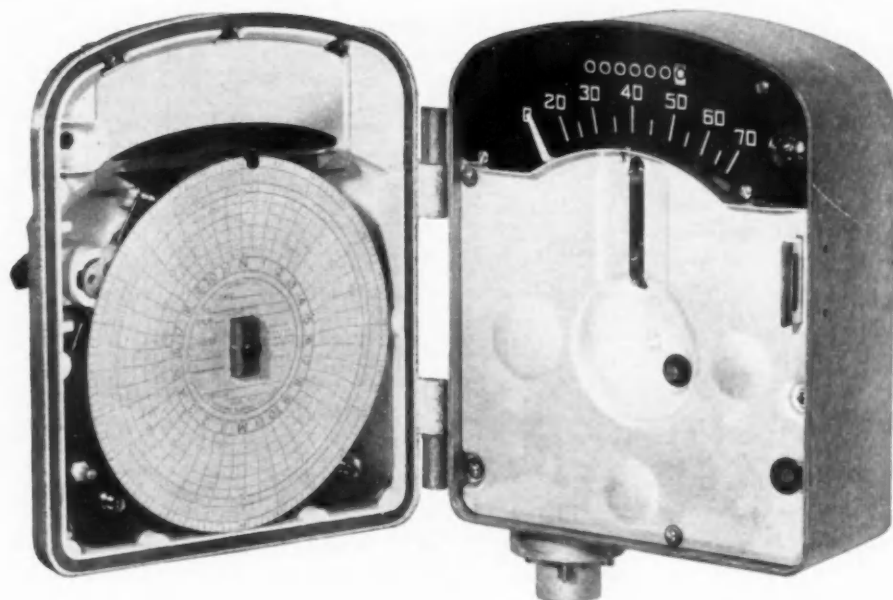
Allied Motor Parts Co., Detroit 1, Mich.  
 Aircraft & Automotive Prods. Inc., 2501 S. West St., Wichita, Kan.  
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.  
 American Hammered Automotive Replacement Div. of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.  
 Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
 Brown Corp., 313 Bellevue Ave., Syracuse, N. Y.  
 Burgess-Norton Mfg. Co., 731 Peyton St., Geneva, Ill.  
 Elgin Machine Works, 412 N. State St., Elgin, Ill.  
 Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.  
 Ertel Products Corp., Div. of Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.  
 Kings County Centerless Grinding Co., 555 36th St., Union City, N. J.  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.  
 Marquette Metal Products Div. Curtiss-Wright, 1145 Galewood Drive, Cleveland 10, Ohio.  
 Merit Products Co., 121 W. Florence Ave., Los Angeles 3, Calif.  
 Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.  
 Nylon Products, Inc., U. S. 12, Bridgman, Mich.  
 Ohio Piston & Machinery Co., 5342 Hamilton Ave., Cleveland 14, Ohio.  
 Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich.  
 Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
 Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
 Simplex Products Corp., 3830 Kelly Ave., Cleveland, Ohio.  
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
 Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
 White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

### PIPES, Tail and Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.  
 Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hahoro, Pa.  
 Arvin Industries, Inc., 13th St. & Big Four R. R., Columbus, Ind.  
 De Koven Mfg. Co., 1201 Michigan Blvd., Racine, Wis.  
 Douglass Muffler Mfg. Co., 5636 E. Shull St., Bell Gardens, Calif.  
 Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Bendable.)  
 Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. (Bendable.)  
 Formed Tubes, Inc., S. Prairie & Albert Sts., Sturgis, Mich.  
 Goerlich's, 619 Smith St., Toledo 1, Ohio.  
 Haviland Co., Arnold, 1008 S. Jackson St., Defiance, Ohio.  
 International Parts Corp., 11th & States Sts., Chicago 5, Ill.  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.  
 Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill. (Also bendable.)  
 Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.  
 Ohio Parts, Inc., 307 Perry St., Defiance, Ohio.  
 Porter Muffler Mfg. Co., 11820 W. Olympic Blvd., Los Angeles 64, Calif.  
 Powell Muffler Co., 2501 W. 24th St., Chicago, Ill.  
 Pratt Industries, Inc., 1600 S. Ashland Ave., Chicago 8, Ill.  
 Riker Mfg. Inc., 4901 Stickney Ave., Toledo 12, Ohio. (Tail.)  
 Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.  
 Tube Products Corp., 320 N. 2nd St., Tipp City, Ohio.  
 Walker Mfg. Co. of Wis., 1201 Michigan Blvd., Racine, Wis.  
 Western Piping & Engrg. Co., 123 Kansas St., San Francisco 3, Calif. (Trucks & buses.)



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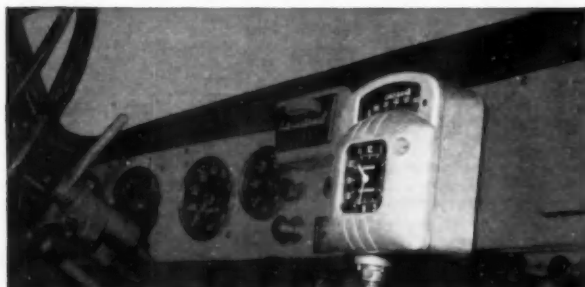
Helps you determine the best routing for normal, "express," or special runs by indicating where traffic tie-ups are likely to occur and where slow downs are necessary due to terrain.

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## pistons to plates

## CCJ's Product Directory

### PISTONS

Al-Fin Div., Fairchild Engine & Airplane Corp., Deer Park, Farmingdale, L. I., N. Y. (Aluminum with bonded and cast iron ring carriers.)  
 Aluminum Alloys Corp., 6650 Walton St., Detroit 10, Mich.  
 Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.  
 American Hammered Automotive Replacement Div. of Sealed Power Corp., Accurallite Div., 2001 Sanford St., Muskegon, Mich.  
 Arrow Head Steel Products Co., Howell, Mich. (Aluminum alloy, vanasil and cast iron.)  
 Badger Mfg. Co., 1505 City Court, Marinette, Wis. (Aluminum alloy.)  
 Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 25, Mich.  
 Continental Motors Corp., Muskegon 82, Mich.  
 Edebrock Equipment Co., 4921 W. Jefferson Blvd., Los Angeles 16, Calif. (Overseas.)  
 Elgin Machine Works, 412 N. State St., Elgin, Ill.  
 Ertel Mfg. Co., 2046 Martindale Ave., Indianapolis 7, Ind. (Aluminum and cast iron.)  
 Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.  
 Gillett & Eaton, Inc., 8th & Doughty Sts., Lake City, Minn. (Aluminum, aluminum alloy and semi-steel.)  
 Hi-Duty Products Corp., 1801 S. Hope St., Los Angeles 15, Calif. (Aluminum.)  
 McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.  
 Nylon Products, Inc., U. S. 12, Bridgman, Mich. (Aluminum and gray iron.)  
 Ohio Piston & Machinery Co., 5340 Hamilton Ave., Cleveland 14, Ohio. (Aluminum, cast iron, and steel insert aluminum.)  
 Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
 Sterling Aluminum Products, Inc., 2600 N. Third St., St. Charles, Mo.  
 Thompson Products, Inc., 23655 Euclid Ave., Cleveland 17, Ohio. (Aluminum alloy.)  
 Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
 Triplex Corp. of America, P. O. Box 666, Pueblo, Colo. (Aluminum.)  
 Tsungang Piston Co., 625 E. 11th St., Tacoma, Wash.  
 United Engine & Machine Co., 310 Preda St., San Leandro, Calif.  
 White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.  
 Zollner Corp., Bueter Rd., Fort Wayne, Ind. (Aluminum alloy.)

### PLASTICS, Molded

(Phenolic, Urea, Cellulose Acetate, Polystyrene, etc.)  
 Ames Molded Plastics Div. Ames-Thompson Co., 211 Ward St., Edinburg, Ind.  
 Armored Plastics Co., Lint & Dura Ave., Toledo 12, Ohio.  
 Artmor Plastics Corp., 1003 Oldtown Rd., Cumberland, Md. (Side seat panels, door liners, kick plates, etc.)  
 Bakelite Corp., 30 E. 42nd St., New York 17, N. Y.  
 Bangor Plastics, Inc., Bangor, Mich.  
 Brillhart Plastics Corp., Old Country Rd., Mineola, N. Y.  
 Chicago Molded Products Corp., 1049 N. Kolmar Ave., Chicago 51, Ill. (Custom molders of nylon.)  
 Colt's Plastics Co., 17 Van Dyke Ave., Hartford 15, Conn.  
 Continental-Diamond Fibre Div., Budd Co., Newark 10, Del.  
 Continental Plastics Corp., 2034 W. Lake St., Chicago 12, Ill.  
 Crane Packing Co., 6435 Oakton St., Morton Grove, Ill. (Teflon.)  
 Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.  
 Dimco-Gray Co., 207 E. Sixth St., Dayton 2, Ohio.  
 du Pont de Nemours & Co., E. I. Polychemicals Dept., Plastic Section, Wilmington 98, Del.  
 Dures Plastics Div., Hooker Electrochemical Co., 1910 Walck Rd., North Tonawanda, N. Y. (Phenolic molding compounds.)  
 Electric Auto-Lite Co., Toledo 1, Ohio.  
 Felsenthal & Sons, Inc., 4100 W. Grand Ave., Chicago 51, Ill. (Acrylic, polymethylene, nylon acetate and butyrate.)  
 Formica Co., 4614 Spring Grove Ave., Cincinnati 32, Ohio. (Phenolic.)  
 Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del. (Bakelite.)

Geanga Industries Co., Old State Rd., Middlefield, Ohio.  
 General Electric Co., Chemical Div., 1 Plastics Ave., Pittsfield, Mass.  
 General Industries Co., Olive St., Elyria, Ohio.  
 General Tire & Rubber Co., Industrial Products Div., Wabash, Ind. (Fiberglass.)  
 Globe Imperial Corp., 2025 Kishwaukee St., Rockford, Ill.  
 Goodyear Aircraft Corp., 1210 Massillon Rd., Akron 15, Ohio.  
 Gries Reproductor Corp., Beechwood Ave. & Second St., New Rochelle, N. Y. (Thermoplastic and nylon.)  
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.  
 Gulliksen Mfg. Co., Wm. M., Newton Lower Falls 62, Mass. (Malamines & fiberglass malamines.)  
 Hooker Electrochemical Co., 4746 Buffalo Ave., Niagara Falls, N. Y.  
 Imperial Molded Products Corp., 2925 W. Harrison St., Chicago, Ill. (Polyester.)  
 Industrial Plastic Co., 1526 W. 166th St., Gardena, Calif.  
 Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton, Ohio.  
 Kish Industries, Inc., 1301 N. Turner St., Lansing, Mich. (Epoxy.)  
 Kurz-Kasch, Inc., 1415 S. Broadway, Dayton 1, Ohio.  
 Metal Specialty Co., Este Ave. & B. & O. R. R., Cincinnati 32, Ohio. (Injection-thermo-plastic.)  
 Molded Insulation Co., 335 E. Price St., Philadelphia 44, Pa.  
 Molded Products Div. of Admiral Corp., P. O. Box 338 West, Chicago, Ill. (Phenolic, urea, and reinforced fiber glass.)  
 National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington, Del.  
 Norton Laboratories, Inc., 520 Mill St., Lockport, N. Y.  
 Panelyte Div. St. Regis Paper Co., 150 E. 42nd St., New York 17, N. Y. (Polystyrene, acrylic, polyethylene, etc.)  
 Plasticite Corp., 327 Rider Ave., New York 51, N. Y. (To order.)  
 Quinn-Berry Corp., 2601 W. 12th St., Erie, Pa. (Cellulose, acetate, polystyrene, nylon, etc.)  
 Renaud Plastics, Inc., 3179 S. Cedar St., Lansing, Mich.  
 Stimsonite Div. of Elastic Stop Nut Corp. of America, 3445 N. Kimball Ave., Chicago 18, Ill. (Acrylic, nylon & polyethylene.)  
 Stokes Molded Products, Div. of Electric Storage Battery Co., Taylor & Webster Sts., Trenton 4, N. J.  
 Superior Plastics, Inc., 426 N. Oakley Blvd., Chicago 12, Ill. (Cellulose acetate, butyrate, vinylite, ethylcellulose, polystyrene, methylmethacrylate, polyvinyl, chloride and nylon.)  
 United States Rubber Co., New Center Bldg., Detroit 2, Mich.  
 Wade Electric Prods. Co., 211 N. Jacobs St., Sturgis, Mich.  
 Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Phenolic.)  
 Woodall Industries, Inc., 7565 E. McNichols Rd., Detroit 34, Mich.  
 (Sheets, Rods, Tubes and Filaments)  
 Acadia Div. Western Felt Works, 4035-4117 Ogden Ave., Chicago 23, Ill. (Synthetic resin sheets.)  
 Anchor Plastics Co., 36-36 36th St., Long Island City 6, N. Y.  
 Auburn Button Works, Inc., 48 Canoga St., Auburn, N. Y.  
 Bakelite Co., 30 E. 42nd St., New York 17, N. Y.  
 Cadillac Plastic & Chemical Co., 15111 Second Ave., Detroit 3, Mich. (Cast acrylic rods and tubes; cast styrene sheets; acrylic styrene; polyethylene; butyrate sheeting, tubing and rods.)  
 Campo Div. Chicago Molded Products Corp., 2727 N. Normandy Ave., Chicago 35, Ill. (Rubber modified styrene, cellulose acetate, cellulose butyrate, ethyl cellulose and polyethylene sheet.)  
 Celanese Corp. of America, Plastic Bldg., 180 Madison Ave., New York 16, N. Y.  
 Chemstrand Corp., 350 Fifth Ave., N. Y. 1, N. Y. (Nylon yarn for tire cord, seat belts, tarpaulins and air springs.)  
 Continental Diamond Fibre Div., Budd Co., Newark 10, Del.  
 Crane Packing Co., 6435 Oakton St., Morton Grove, Ill.  
 du Pont de Nemours & Co., E. I. Film Dept., Wilmington 90, Del. (polyester film.)  
 du Pont de Nemours & Co., E. I. Polychemicals Div. Plastic Sales Section, Wilmington 98, Del.

Electric Auto-Lite Co., Toledo 1, Ohio.  
 Felsenthal & Sons, Inc., 4100 W. Grand Ave., Chicago 51, Ill. (Acrylic, vinyls, acetate and polyethylene sheets.)  
 Flexrock Co., Packing Div., 36th & Filbert Sts., Philadelphia 4, Pa.  
 Formica Co., 4614 Spring Grove Ave., Cincinnati 32, Ohio.  
 Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del. (Laminated.)  
 General Electric Co., Chemical Div., 1 Plastics Ave., Pittsfield, Mass. (Laminated phenolic sheets, rods and tubes.)  
 Gilman Bros. Co., Gilman, Conn. (Polystyrene sheet.)  
 Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.  
 Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton, Ohio.  
 Mica Insulator Co., Broadway, Schenectady, N. Y. (Laminated phenolic.)  
 Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.  
 Monsanto Chemical Co., Plastics Div., Springfield 2, Mass. (Cellulose nitrate sheeting, polyvinyl chloride film and sheeting, butyrol film.)  
 National Plastic Products Co., Odenton, Md. (Filament for automobile seat covers and upholstery.)  
 National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del.  
 Naugatuck Chemical Div. of U. S. Rubber Co., 523 Elm St., Naugatuck, Conn.  
 Nixon Nitration Works, Nixon, N. J.  
 O'Sullivan Rubber Corp., Valley Pike, Winchester, Va.  
 Panelyte Div. St. Regis Paper Co., 150 E. 42nd St., New York, N. Y. (Laminated phenolic.)  
 Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.  
 Polymer Corp. of Pa., 2120 Fairmount Ave., Reading, Pa. (Nylon and teflon.)  
 Resistoflex Corp., Woodland Ave., Roseland, N. J.  
 Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y.  
 Synthane Corp., Oaks, Pa. (Laminated phenolic.)  
 Taylor Fibre Co., Norristown, Pa.  
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
 Vogt Mfg. Corp., 100 Fernwood Ave., Rochester 21, N. Y.  
 Westinghouse Electric Corp., Micarta Div., 3 Gateway Center, Pittsburgh 30, Pa.  
 Wilmington Fibre Specialty Co., New Castle, Del.  
 (Sheets, Transparent)  
 Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.  
 Lushan Co., 144 Moody St., Waltham 54, Mass.  
 Rohm & Haas Co., 222 W. Washington Sq., Philadelphia 5, Pa. (Cast acrylic.)

### PLATES, Clutch Pressure

Accurate Parts Mfg. Co., 1800 S. Ashland Ave., Chicago 8, Ill.  
 Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

### PLATES, FLOORING, See Flooring, Truck and Trailer

### PLATES, Step

Duffy Mfg. Co., Holland, Mich.  
 Hamlin Metal Products Co., 2741 Wingate Ave., Akron 19, Ohio.  
 Moore & Co., Samuel, Mantua, Ohio.  
 Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.  
 Standard Products Co., 2120 W. 110th St., Cleveland 2, Ohio. (Scuff.)  
 Western Metal Specialty Div., Western Industries, Inc., 1215 N. 62nd St., Milwaukee 13, Wis.

### PLIERS, BRAKE SPRING, See Tools, Brake Spring Removing and Replacing

### PLIERS, TERMINAL, See Tools, Battery Service

### PLOWS, SNOW, See Snow Plows

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## plugs to presses

CCJ's Product Directory

### PLUGS, Fusible Safety for Hydraulic Lines

Shand & Jura Co., 8th & Carlton Sts., Berkeley 10, Calif.

PLYWOOD, See Panels, Plywood

### POINTS, Ignition

American Motor Products Co., Fond du Lac, Wis.

American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J.

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.

Echlin Mfg. Co., U. S. Route 1, Branford, Conn.

Electric Auto-Lite Co., Toledo 1, Ohio

F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.

Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.

Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.

Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.

Guaranteed Parts Co., Seneca Falls, N. Y.

Holley Carburetor Co., 11955 Nine Mile Rd., Van Dyke, Mich.

Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.

M D Parts Mfg. Co., 4595 E. Olympic Blvd., Los Angeles, Calif.

Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.

Mallory & Co. P. R., 3029 E. Washington St., Indianapolis 6, Ind.

Mallory Electric Corp., 12416 Cloverdale Ave., Detroit 4, Mich.

National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.

Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.

P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.

Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)

Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.

Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.

Sorensen Mfg. Co. P., 32-31 57th St., Woodside 77, N. Y.

Speer Carbon Co., St. Marys, Pa.

Springfield Electrical Specialties, Inc., 120 Wooster St., New York 12, N. Y.

Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.

Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.

Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.

Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.

Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.

Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

Wilson Co., H. A., 2655 U. S. Route 22, Union, N. J.

### POLISH, Body

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.

Albertson & Co., 3100 Lowell Ave., Sioux City 3, Iowa.

Allube Corp., 928 Allen Ave., Glendale 1, Calif.

Alsop Products Co., 123 Coit St., Irvington, N. J.

Atomix, Inc., Box 486, Wilmington 99, Del.

Bail Chemical Co., 524 Federal St., Pittsburgh 12, Pa.

Bandimere Mfg. Co., 3276 Benton St., Denver 14, Colo.

Barton Products Co., 2765 St. Marys Court, Chicago 47, Ill.

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.

Bostwick Laboratories, Inc., 706 Bostwick Ave., Bridgeport 5, Conn.

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.

Boyle-Midway, Inc., 22 E. 40th St., New York 16, N. Y.

Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo.

Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.

Chisholm Industries, Inc., 11 Commercial St., Lynn, Mass.

Collenite Chemical Co., 1205 Mohawk St., Utica 3, N. Y.

Colorgio Products, Inc., 109 N. Newlin Ave., Whittier, Calif.

Continental Car-Na-Var Corp., Brasil, Ind.

Drew & Co., E. T. Automotive Chemicals Div., 15 E. 26th St., New York 10, N. Y.

Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (Pigmented.)

du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington 98, Del.

Ensign Products Co., 3529 E. 76th St., Cleveland 5, Ohio.

Eso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.

Freeman & Freeman, Inc., 600 Grant St., Denver 3, Colo.

Garry Laboratories, Inc., 701 Seneca St., Buffalo 10, N. Y.

Glieten Co., 13 Barnard St., Hilledale, Mich.

Gold Eagle Products Co., 1050 W. Kinzie St., Chicago 22, Ill.

Goodrich Co., Industrial Prods. Div., B. F., 500 S. Main St., Akron, Ohio.

Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. (Wax.)

International Metal Polish Co., 1910 Quill St., Indianapolis, Ind.

Johnson & Son, Inc., S. C., Racine, Wis.

Jones Products Co., 1406 Massachusetts Ave., Arlington 74, Mass.

Kammel Products Corp., 1619 Hart Place, Brooklyn 24, N. Y.

Ken-Nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.

Lee Polish Mfg. Co., 1399 Utica Ave., Brooklyn 3, N. Y.

Liquid Glaze, Inc., 704 Sheridan St., Lansing 6, Mich.

Liquid Veneer Corp., 215 E. Ellicott St., Buffalo 3, N. Y.

Livingston Co., 1148 Amity Rd., New Haven 15, Conn.

Lusco, Inc., 5915 Bonna Ave., Cleveland 3, Ohio.

Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.

Milwaukee Electric Tool Corp., 5350 W. State St., Milwaukee 8, Wis.

Mirror Bright Polish Co., 365 N. Altadena Blvd., Pasadena, Calif.

National Carbon Co., 30 E. 42nd St., N. Y. 17, N. Y.

Nu-Wipe-Lacquerwax Inc., Webster's Mill, 57 N. Washington St., Plainville, Conn.

Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.

Penray Co., 1532 W. Fulton St., Chicago 7, Ill.

Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.

Plasticlear Products, Inc., 29 Mills St., Malden, Mass.

Rawhide Products Co., Michigan Ave., Kenilworth, N. J.

Shell Oil Co., 50 W. 50th St., N. Y. 20, N. Y.

Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

Simonis Co., 2100 Indiana Ave., Chicago 16, Ill.

Sinclair Refining Co., 600 Fifth Ave., New York, N. Y.

Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.

Stain-Ox Co., 625 E. First Ave., Roselle, N. J.

Stanley Co., John T., 642 W. 30th St., New York 1, N. Y.

Swavely Chemical & Varnish Works, 881 Page St., Flint 5, Mich.

Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.

U. S. Chemical & Supply Co., 400 E. 10th Ave., North Kansas City 16, Mo.

Universal Chemical Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.

V-O Mfg. Co., 13165 Sherman Way, North Hollywood, Calif.

Warehouse Distributing Co., 3810 N. 19th St., Philadelphia 40, Pa.

Westley Industries, 1898 Scranton Rd., Cleveland 13, Ohio.

Wilco Co., 4425 Bandini Blvd., Los Angeles

Wilson-Imperial Co., 115 Chestnut St., Newark 5, N. J.

Zecol, Inc., 3270 S. 3rd St., Milwaukee 7, Wis.

### POLISHERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.

Buckeye Tools Corp., 5005 Springboard Pike, Dayton 9, Ohio.

Chicago Pneumatic Tool Co., 6 E. 44 St., N. Y. 17, N. Y.

Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.

Cummins Portable Tools Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.

Dremel Mfg. Co., 2420 18 St., Racine, Wis.

Jones Motorola Corp., 482 Fairfield Ave., Stamford, Conn.

Lee Co., A. O., Congress at First Ave., S.E., Aberdeen, S. D.

Mall Tool Co., 7740 S. Chicago Ave., Chicago 18, Ill.

Millers Falls Co., Greenfield, Mass.

Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.

Nedco Co., 27 Jones Rd., Waltham 54, Mass.

Portable Elec. Tools, Inc., 320 W. 83rd St., Chicago 20, Ill.

Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.

Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.

Scott Corp., Douglas, 3931 W. 150th St., Cleveland 11, Ohio.

Signal Mfg. Co., 69 Bennett St., Lynn, Mass.

Skill Corp., 5033 Elston Ave., Chicago 30, Ill.

Sommer & Maca Glass Machining Co., 3600 S. Oakley Ave., Chicago 9, Ill.

Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

United States Electrical Tool, Div. of Emerson Electric Mfg. Co., 1050 Findlay St., Aurora, Ill.

Wen Products, Inc., 5806 N.W. Hwy., Chicago 31, Ill.

### POLISHERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.

Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.

Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.

Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.

Skill Corp., 5033 Elston Ave., Chicago 30, Ill.

Thor Power Tool Co., Prudential Bldg., Chicago, Ill.

### POLISHING COMPOUNDS, See Compounds, Rubbing and Polishing

### POWER TAKE-OFFS, See Take-Offs, Power

### PRESSES, Arbor

Acromark Co., 9 Morrell St., Elizabeth 4, N. J.

Bee-Line Co., Box 569, Davenport, Iowa.

Bellows Co., 222 W. Market St., Akron 9, Ohio. (Pneumatic.)

Champion Blower & Forge Co., Harrisburg Ave., & Charlotte St., Lancaster, Pa.

Dake Corp., 639 Monroe St., Grand Haven, Mich.

Famco Machine Co., 3100 Sheridan Rd., Kenosha, Wis.

French Oil Mill Machinery Co., Piqua, Ohio.

General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.

Greenard Arbor Press Co., 41 Crown St., Nashua, N. H. (Hand and hydraulic.)

Hannifin Co., 615D S. Wolf St., Des Plaines, Ill.

Houdaille Industries, Inc., Manzel Div., 315 Babcock St., Buffalo 10, N. Y.

Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Electric and hydraulic.)

Logansport Machine Co., Center Ave., Logansport, Ind. (Pneumatic and hydraulic.)

Manley Div., Douglas Motors Inc., 2025 Claybourn St., Milwaukee, Wis.

Mead Specialties Co., 4114 N. Knox Ave., Chicago 41, Ill. (Pneumatic.)

Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif. (Hand and hydraulic.)

Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.

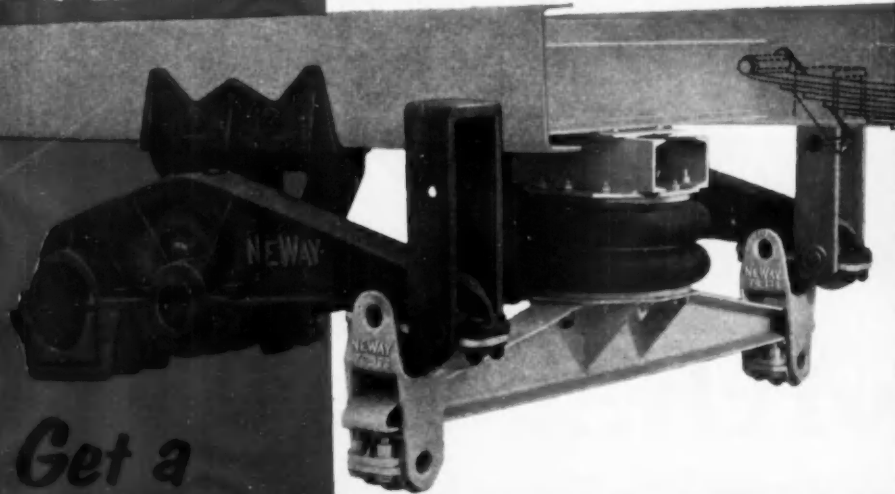
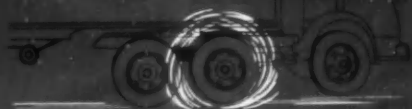
Producto Machine Co., 990 Housatonic Ave., Bridgeport 1, Conn.

Rotex Punch Co., 2350 Alvarado St., San Leandro, Calif.

Studebaker Hydraulic Products Co., 1733 N. 33rd Ave., Melrose Park, Ill. (Hydraulic and air-hydraulic.)



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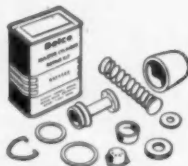
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Made and assembled to original equipment specifications.



**MASTER CYLINDER REPAIR KIT**  
All parts needed to put master cylinder in normal operating condition.



**WHEEL CYLINDER REPAIR KIT**  
All parts necessary to put wheel cylinder in normal operating condition.



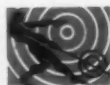
**MORaine POWER BRAKES**  
Complete units and service kits for General Motors vehicles.



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- Surpasses S.A.E. specifications for heavy-duty hydraulic brake fluid!
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- Is chemically inert, physically stable!
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- Is available everywhere through the United Motors System and General Motors car and truck dealers!

**MORE SAFE STOPS—LOWER OPERATING COSTS!**



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Division of General Motors, Dayton, Ohio

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### MORaine-400 BEARINGS

Toughest automotive engine bearings ever made!



### MORaine BI-METAL BEARINGS

Precision-built to original equipment specifications.



### M-100 BEARINGS

Excellent fatigue resistance and longer life expectancy.



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Glass-bowl and pancake all-metal types assure dirt-free, lint-free fuel under all operating conditions.



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  - Precision-made to extremely close tolerances, to handle higher bearing loads!
  - High embedability . . . good corrosion resistance . . . strong resistance to fatigue!
  - Quality that stands up through miles and miles of operation!
  - A convenient source of supply—readily available through the United Motors System and General Motors car and truck dealers!
- LONGER BEARING LIFE—LOWER OPERATING COSTS!**



## Moraine Products

Division of General Motors, Dayton, Ohio

## presses to pumps

### PRESSES—continued

Treadwell Tap & Die Co., Greenfield, Mass.  
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.  
Ulmo Tool Co., 2515 Superior St., Cleveland, Ohio. (Portable.)  
Wilson, Inc., K. R., Arcade, N. Y.

### PRESSES, Hydraulic

Air Hydraulics, Inc., 811 Belden St., Jackson, Mich.  
American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.  
Anderson Bros. Mfg. Co., 1907 Kiwaukee St., Rockford, Ill.  
Baldwin-Lima-Hamilton Corp., Philadelphia 42, Pa.  
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.  
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 46, Wis.  
Bliss Co., E. W., 1375 Raff Rd. S. W., Canton, Ohio.  
Brandt Machine Co., C. R., Roosevelt Ave., York, Pa.  
Chambersburg Engrg. Co., Derbyshire St., Chambersburg, Pa.  
Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill.  
Clifton Hydraulic Press Co., 289 Alwood Rd., Clifton, N. J.  
Colton Co., Div. of Snyder Tool & Engrg. Co., 3400 E. Lafayette St., Detroit 7, Mich.  
Dake Corp., 630 Monroe St., Grand Haven, Mich. (Electrically, air and hand operated.)  
Denison Engineering Co., 1160 Dublin Rd., Columbus, Ohio.  
Detroit Branch Co., 950 S. Rochester Rd., Rochester, Mich.  
Elmes Engrg. Div., American Steel Foundries, 1163 Tennessee Ave., Cincinnati 29, Ohio.  
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.  
Farrel-Birmingham Co., 97 Main St., Ansonia, Conn.  
Fox Engrg. Co., 1336 Francis St., Jackson, Mich.  
French Oil Mill Machinery Co., Piqua, Ohio.  
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H.  
Hannifin Corp., 615D South Wolf Rd., Des Plaines, Ill.  
Hydraulic Press Mfg. Co., Mount Gilead, Ohio.  
Lake Erie Machinery Corp., 890 Woodward Ave., Buffalo 17, N. Y.  
Lapointe Machine Tool Co., 34 Tower St., Hudson, Mass.  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. Sole distributors to replacement trade, Lemco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.  
Link Engrg. Co., 13845 Elmira Ave., Detroit 27, Mich.  
Loewy-Hydropress Div. of Baldwin-Lima-Hamilton Corp., 111 Fifth Ave., New York 3, N. Y.  
Logansport Machine Co., Center Ave., Logansport, Ind.  
Manley Div., Douglas Motors Inc., 2025 Clybourn St., Milwaukee, Wis.  
Mesta Machine Co., Box 1466, Pittsburgh, Pa.  
Morgan Engineering Co., Broadway and C. & P. R. R., Alliance, Ohio.  
Munton Mfg. Co., 9161 Fullerton Ave., Franklin Park, Ill.  
Niagara Machine & Tool Works, 688 Northland Ave., Buffalo 11, N. Y.  
Nugier Co., F. A., 1748 Berkeley St., Santa Monica, Calif.  
Oliver Corp., A. B., Farquhar Div., 142 N. Duke St., York, Pa.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Paul Machine Tool & Die Works, 4600 S. Kedzie Ave., Chicago 32, Ill.  
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis, Ind.  
Studebaker Hydraulic Products Co., 1733 N. 33rd Ave., Melrose Park, Ill.  
Sutton Engrg. Co., 234 S. Potter St., Bellefonte, Pa.  
Tobin-Arp Mfg. Co., 6400 Penn Ave., S. Minneapolis 23, Minn.  
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.  
Verson Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.  
Williams, White & Co., 100 Eighth St., Moline, Ill.

Wilson, Inc., K. R., Arcade, N. Y.  
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

### PRESSES, Straightening, Wheel

Barrett Equipment Co., 21st and Cass Ave., St. Louis 6, Mo.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bee-Line Co., Box 569, Davenport, Iowa.  
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind.

### PRIMERS, Engine, Hand

Dole Valve Co., 6201 Oakton St., Morton Grove, Ill.  
Standard Oil Co. of Calif., Western Operations Inc., 225 Bush St., San Francisco 20, Calif.

PROPANE, See Fuels, Engine  
PRUSSIAN BLUE, See Bins, Mechanics

### PULLERS, Axle Tube

Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.  
Owatonna Tool Co., 342 Cedar St., Owatonna, Minn.  
P & C Tool Co., Box 5926, Milwaukee, Ore.  
Milwaukee 1, Wis. (Hydraulic wheel.)

### PULLERS, Bearing, Gear and Wheel

Armstrong-Bray & Co., 5364 Northwest Highway, Chicago, Ill.  
Atmars Tool Co., 3561 Lakeshore Ave., Oakland 10, Calif.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Wheel.)  
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. (Hydraulic wheel.)  
Bonney Forge & Tool Works, 2400 Rockhill Rd. N., Alliance, Ohio.  
C. & G. Wheel Puller Co., Seio, N. Y.  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Also timing gear.)  
Cam Tool Co., 11 Randwick Ave., Oakland 11, Calif.  
Campbell Auto Wks., 2128 N. F St., Stockton, Calif.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Crane Puller Co., 11 River St., West Newton, Mass.  
Dalton Foundries, Inc., Warsaw, Ind.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Gerb Co., 181 Canton St., Stoughton, Mass.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.  
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Wheel.)  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio. (Wheel.)  
Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Wheel.)  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
National Machine Works, Inc., 1800 S. Broadway, Oklahoma City 9, Okla.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. (Also hydraulic conversion sets.)  
P & C Tool Co., Box 5926, Milwaukee, Ore.  
Powercraft Corp., 2515 S. Wabash Ave., Chicago 16, Ill.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 51, Cal.  
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. (Wheel.)  
Simmons Mfg. Co., Ashland, Ohio.  
Snap-On Tools Corp., 8046 25th Ave., Kenosha, Wis.  
Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio.  
Templeton, Kenly & Co., Gardner Rd., Broadview, Ill. (Hydraulic.)

## CCJ's Product Directory

Vichek Tool Co., 3000 E. 87th St., Cleveland, Ohio.  
Weidenhoff Corp., Algona, Iowa.  
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.  
Wilson, Inc., K. R., Arcade, N. Y.  
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio. (Wheel.)  
Zim Mfg. Co., 3007 Carroll Ave., Chicago, Ill.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### PULLERS, Cylinder Head

Cornwall Quality Tools Co., Mogadore, Ohio.

### PULLERS, Cylinder Sleeve

Fort Dodge Machine & Supply Co., 529 First Ave., S. Fort Dodge, Iowa.  
Hein Werner Corp., 1200 National Ave., Waukesha, Wis. (Hydraulic.)  
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. (Also hydraulic conversion sets.)  
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.

### PULLERS, VEHICLE, See Towers

### PUMPS, Brake, Vacuum

Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.  
Hetsel Bros., 1457 E. Washington Blvd., Los Angeles 21, Calif.  
Kelsey-Hayes Wheel Co., 8600 Military Ave., Detroit 32, Mich.

### PUMPS, Drum or Barrel Type

Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn.  
Wood Co., John, Bennett Pump Div., Muskegon, Mich.

### PUMPS, Fuel

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Mechanical, also combustion fuel feed and vacuum.)  
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill. (Also combination fuel and vacuum.)  
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.  
American Motor Products Co., Fond du Lac, Wis.  
Autopulse Corp., 218 E. Dowland St., Ludington, Mich. (Electric.)  
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.  
Carter Carburetor Div. of ACF Industries Inc., 2840 N. Spring Ave., St. Louis 7, Mo. (Electric and mechanical.)  
Eastern Industries, Inc., 100 Skiff St., Hamden, Conn.  
Eclipse Machine, Div. Bendix Aviation Corp., Elmira, N. Y. (Electric.)  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, N. Y.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. (Also combination fuel and vacuum.)  
Master Parts, Div. of Airtex Products, Inc., Fairfield, Ill.  
P & D Mfg. Co., 1902 Steinway St., Long Island City 5, N. Y.  
Stewart-Warner Corp., Instrument Div., 1828 Diversey Parkway, Chicago 14, Ill. (Electric.)  
Thompson Products Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

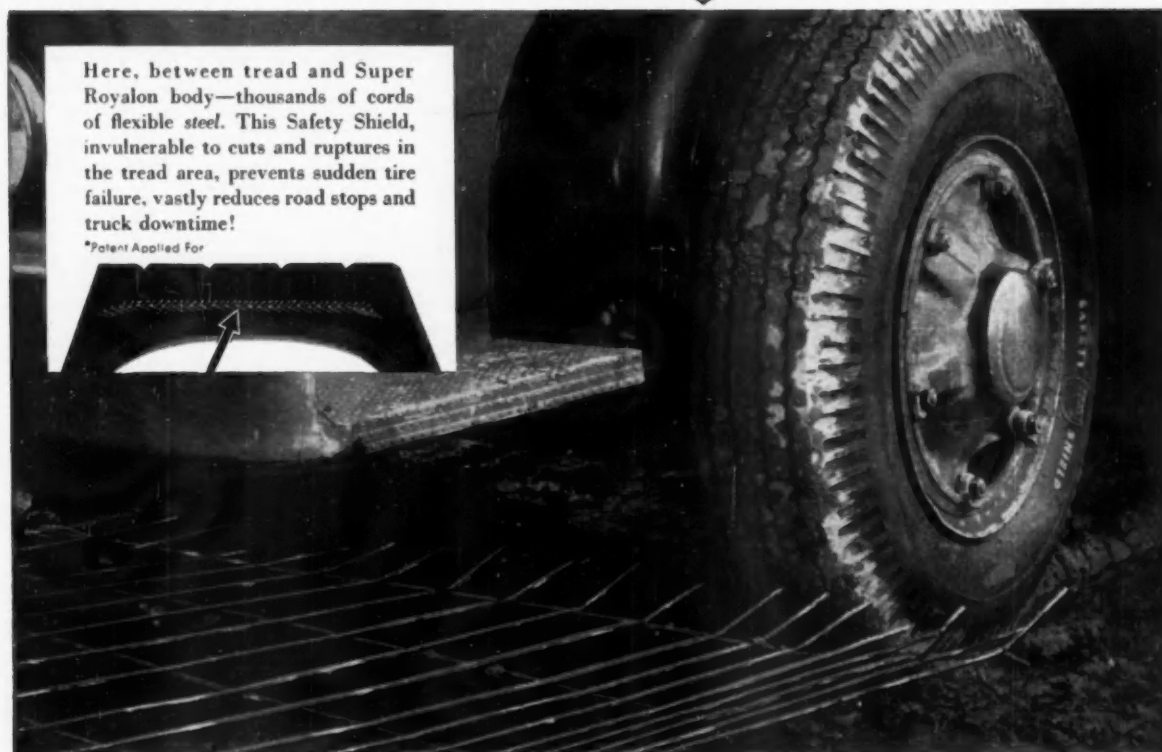
### PUMPS, Gasoline, Filling Station

Bennett Pump Div., John Wood Co., Broadway & Wood Sts., Muskegon, Mich.  
Boswer, Inc., 1302 E. Creighton Ave., Fort Wayne 2, Ind. (Also LP Gas.)  
Dayton Pump & Mfg. Co., 500 N. Webster St., Dayton, Ohio.



# STOP Cuts, Ruptures, Delays

with  
exclusive **SAFETY *STEEL* SHIELD\***



Here, between tread and Super Royalon body—thousands of cords of flexible *steel*. This Safety Shield, invulnerable to cuts and ruptures in the tread area, prevents sudden tire failure, vastly reduces road stops and truck downtime!

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And here's the *most economical* of truck tires. Because this U. S. Royal with Safety Steel Shield stops tread cuts from penetrating to the cord body (75% of your tire investment), it stays "like new" for extra recaps.

Get the full story of this great new U. S. Royal, now priced right with ordinary tires. Call your U. S. Royal Dealer today! Of course you can specify U. S. Royals with Safety Steel Shield on the new equipment you buy!

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- U. S. ROYAL  
FLEETWAY  
—for all-around use on the highway
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CCJ's Product Directory

## PUMPS—continued

Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.  
 Gilbert & Barker Mfg. Co., West Springfield, Mass.  
 Smith Corp., A. O. Pacific Coast Div., 5715 Smithway St., Los Angeles 27, Calif.  
 Southwest Pump Co., First & Center Sts., Bonham, Tex.  
 Tokheim Corp., 1602 Wabash Ave., Fort Wayne, Ind.  
 Wayne Pump Co., Salisbury, Md.  
 Wood Co., John, Bennett Pump Div. Broadway & Wood Sts., Muskegon, Mich.

## PUMPS, Oil

(Advertisers Only)

Wohler Corp., 700 E. Grand River Ave., Lansing 5, Mich.

## PUMPS, Tire Inflating

Bennett Pump Div., John Wood Co., Muskegon, Mich.

## PUMPS, Water

Accurate Products Inc., 720 E. Washington St., Indianapolis 2, Ind.  
 Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill.  
 Allied Motor Parts Co., Detroit 1, Mich.  
 Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 26, Ohio.  
 Atlas Brass Foundry Co., 32 W. Deshler Ave., Columbus, Ohio.  
 Balcrank, Inc., Disney St. nr. Marburg, Cincinnati 9, Ohio.  
 Cloyer Gear & Products Inc., 17214 Roselana Rd., N.E., Cleveland 12, Ohio.  
 Elgin Machine Works, 412 N. State St., Elgin, Ill.  
 Ertel Products Corp., Div. Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.  
 Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.  
 Grapho Products, Inc., P. O. Box 8604, Lawrence, Ind.  
 Ineco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.  
 L C Products, Inc., 2232 Alford St., Indianapolis 7, Ind.  
 Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
 McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo. (Factory rebuilt.)  
 Master Parts Div., Airtex Products, Inc., Fairfield, Ill.  
 Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y.  
 Parts Specialists, 5984 Lincoln Ave., Detroit 8, Mich. (Factory Rebuilt.)  
 Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind.  
 Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
 Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
 Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
 Warner Machine Products, Inc., 1290 Rochester St., Muncie, Ind.  
 Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y.  
 Wohler Corp., 700 E. Grand River Ave., Lansing 5, Mich.  
 Wolverine Gear & Parts Co., Osseo, Mich.

## RACKS, Stock, Tire and Tool, Metal

Ainsworth Mfg. Co., 2200 Franklin St., Detroit 7, Mich.  
 Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.  
 Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. (Tire.)  
 Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.  
 Bay Products, Inc., 3001 N. 16th St., Philadelphia 32, Pa. (Steel tool.)  
 Berger Div., Republic Steel Corp., 1033 Belden Ave., N. E., Canton 5, Ohio.  
 Bernard Franklin Co., Hedley & Bath Sts., Phila. 37, Pa.  
 Bernard Gloekier East Co., Robinson and Wall Sts., North East, Pa.  
 Brantick Mfg. Co., Fargo, N. D. (Tire.)  
 Brown Engineering Co., 131 N. Third St., Reading, Pa. (Stock.)

Coats Co., 3001 Fifth Ave., S., Fort Dodge, Iowa. (Tire; sole distributors Jack P. Henessy Sales Co., 12 Depot Sq., Englewood, N. J.)  
 Durlach Can & Iron Works, 360 Ninth St., Brooklyn 15, N. Y.  
 Economy Engineering Co., 4511 W. Lake St., Chicago 24, Ill. (Barrel.)  
 Equipto Div. Aurora Equipment Co., Prairie St. at Cleveland, Aurora, Ill.  
 Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.  
 Fenton Industries, 5105 San Fernando Rd., W., Los Angeles 39, Calif.  
 Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.  
 Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.  
 International Equipment Div. Morrison Railway Supply Corp., P. O. Box 185, Sta. F., Buffalo, N. Y. (Sole distributors Jack P. Henessy Sales Co., Englewood, N. J.)  
 Kirapel Industries, Inc., Livingston, N. J.  
 Lewis-Shepard Products, Inc., 1050 Walnut St., Watertown, Mass.  
 Logan Co., Cabel St., Louisville 6, Ky.  
 Lyon Metal Products, Inc., 2331 Montgomery St., Aurora, Ill.  
 Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. (Stock.)  
 Paltier Corp., 1701 Kentucky St., Michigan City, Ind.  
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Barrel and drum.)  
 Unistrut Products Co., 1015 Washington Blvd., Chicago 7, Ill. (Framing.)

**RADIATOR COVERS, See Covers, Radiator Grille**  
**RADIATOR GRILLES, See Grilles, Radiator**  
**RADIATOR SHUTTERS, See Shutters, Radiator**

## RADIATORS, Engine Cooling

Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill.  
 Blackstone Corp., 1088 Allen St., Jamestown, N. Y.  
 Daniel Radiator Mfg. Co., 5542 Harvey Wilson Dr., Houston 20, Tex.  
 Fedders-Quigan Corp. Co., 57 Tonawanda St., Buffalo 7, N. Y.  
 G & O Mfg. Co., 135 Winchester Ave., New Haven, Conn.  
 General Radiator Co., Box 23, Mt. Vernon, Ill.  
 Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.  
 Lake Auto Radiator Mfg. Co., 5200 W. 130th St., Cleveland 30, Ohio.  
 Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich.  
 McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.  
 Modine Mfg. Co., 1500 De Koven Ave., Racine, Wis.  
 Perfex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wis.  
 Yates-American Machine Co., Beloit, Wis.  
 Young Radiator Co., 709 S. Marquette St., Racine, Wis.

## RADIOS, Two-Way

ARF Products, Inc., 7627 Lake St., River Forest, Ill.  
 Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md.  
 Communications Co., 300 Greco Ave., Coral Gables 34, Fla.  
 Du Mont Laboratories, Inc., Allen B., 750 Bloomfield Ave., Clifton, N. J.  
 Federal Telephone & Radio Co., 100 Kingsland Rd., Clifton, N. J.  
 General Electric Co., Electronics Div., Electronics Park, Syracuse, N. Y.  
 Kaar Engrg. Corp., 2995 Middlefield Rd., Palo Alto, Calif. (For commercial vehicles.)  
 Motorola Communications & Electronics, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.  
 Radio Corp. of America, Mobile Communications Equip., Commercial Electronics Dept., Camden, N. J.

## RADIOS, Vehicle (Receivers)

Automatic Radio Mfg. Co., 122 Brookline Ave., Boston, Mass.  
 Bendix Radio Communications Div., Bendix Aviation Corp., E. Joppa Rd., Towson 4, Md. (Custom built.)

Delco Radio Div., General Motors Corp., Kokomo, Ind.  
 Motorola Communications & Electronics, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.  
 Philco Corp., Automotive Div., Tioga & C Sts., Philadelphia 34, Pa.  
 Sylvania Electric Products Inc., Lighting Div., 60 Boston St., Salem, Mass.

## RAILS, Rub, Pressed Steel

Bath Co., Cyril, 32280 Aurora Rd., Solon, Ohio.  
 Cutler Metal Products Co., 1029 Line St., Camden, N. J.  
 Hart Metal Products Corp., 3333 Hammond Ave., Elkhart, Ind.  
 Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.  
 Magline, Inc., 952 Murray Rd., Pinconning, Mich.  
 Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.

## RAMPS, Truck Loading

Bustin Steel Products, Inc., Dover, N. J.  
 Cemco Industries, Inc., Galion, Ohio. (Hydraulic.)  
 Christensen Co., Wm., Sherman St. & M-P Railway, York, Pa. (Adjustable.)  
 Colon Co., Leroy L., 2916 N. Cicero Ave., Chicago 41, Ill. (Hydraulic and manual.)  
 Globe Hoist Co., E. Mernad Lane & Queen St., Philadelphia 18, Pa. (Hydraulic dock leveling.)  
 Herman Co., Karl A., 412 Fuller St., N.E., Grand Rapids, Mich. (4 way adjustable.)  
 Magline, Inc., 952 Murray Rd., Pinconning, Mich. (Dockboards & mobile ramps.)  
 Raymond Corp., 151 Madison St., Greene, N. Y.  
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Hydraulic.)  
 Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.  
 Rowe Methods, Inc., 2534 Detroit Ave., Cleveland 13, Ohio. (Electric hydraulic.)  
 Wayne Pump Co., Salisbury, Md.

## RAMS, Hydraulic

Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.  
 Bee-Line Co., P. O. Box 569, Davenport, Iowa.  
 Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.  
 Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.  
 Livingston Mfg. Co., 8438 Otis St., South Gate, Cal.  
 Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill. (Hydraulic remote control.)  
 Owatonna Tool Co., 341 Cedar St., Owatonna, Minn.  
 Porter, Inc., H. K., 74 Foley St., Somerville, Mass. (Hydraulic remote control.)  
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
 Stephenson Foundry & Mfg. Co., J. O., 549 E. Fort St., Detroit 26, Mich.  
 Templeton Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill.

## RATCHETS, Ridge Rope for Truck Covers

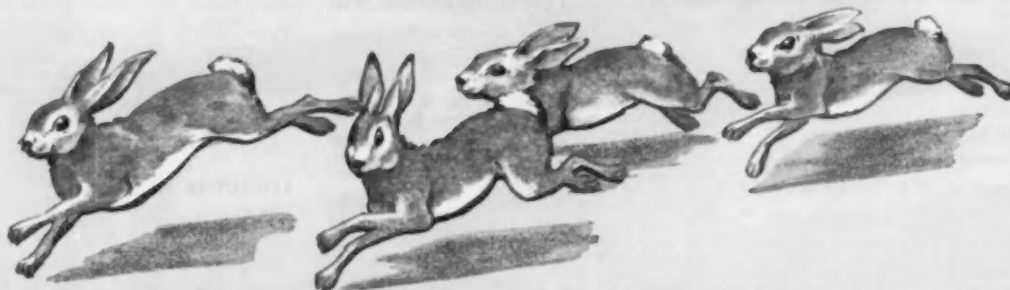
(Advertisers Only)

East Akron Ratchet & Mfg. Co., 1048 Bank St., Akron 5, Ohio.

## REAMERS, Cylinder Ridge

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.  
 All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.  
 Ameco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
 Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.  
 Burd Piston Ring Co., Box 567, Eau Claire, Wis.  
 Cornwall Quality Tools Co., Magadore, Ohio.  
 Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
 Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
 Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
 National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.

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CCJ's Product Directory

## REAMERS—continued

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

## REAMERS, Main Bearing and Connecting Rod

Keystone Reamer & Tool Co., Millersburg, Pa.  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y. (Connecting rod.)  
Wilson, Inc., K. R., Arcade, N. Y.

## REAMERS, Power Drive

Barber-Colman Co., 1800 Rock St., Rockford, Ill.  
Besly-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.  
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.  
Gairing Tool Co., 21221 Hoover Rd., Detroit 32, Mich.  
Gammons-Hoaglund Co., 395 Main St., Manchester, Conn.  
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.  
Illinois Tool Works, 2501 N. Keeler Ave., Chicago, Ill.  
Jarvis Corp., Middletown, Conn.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
McCrosky Tool Corp., S. Main St., Meadville, Pa.  
National Twist Drill & Tool Co., Rochester, Mich.  
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.  
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.  
Reiff & Nestor Co., Lykens, Pa.  
Reltool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.  
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.  
Twentieth Century Mfg., Route 176 & Bradley Rd., Libertyville, Ill.  
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.

## REAMERS, Solid Expansion and Adjustable

Ace Drill Corp., 2600 E. Maumee St., Adrian, Mich. (Solid.)  
Arrow Tool & Reamer Co., 711 Stephenson Highway, Troy, Mich. (Solid.)  
Barber-Colman Co., 1800 Rock St., Rockford, Ill. (Solid and adjustable.)  
Beard Tool Co., L. O., Andrew & Mill St., Lancaster, Pa. (Solid and adjustable.)  
Besly-Welles Corp., 20 N. Wacker Drive, Chicago 6, Ill.  
Cal-Van Machine Products Inc., 809 S. Water St., Jackson, Mich.  
Chadwick & Trefethen, 32 Bow St., Portsmouth, N. H.  
Chicago-Latrobe, 426 W. Ontario St., Chicago 10, Ill. (Expansion.)  
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio.  
Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 475 S. Seymour St., Fond du Lac, Wis.  
Do All Co., 254 N. Laurel Ave., Des Plaines, Ill.  
Gairing Tool Co., 21221 Hoover Rd., Detroit 32, Mich. (Expansion.)  
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.  
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. (Solid and Expansion.)  
Hill Nut Co., 2620 W. Flourney St., Chicago 12, Ill.  
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Expansion and adjustable.)  
Jarvis Corp., Middletown, Conn. (Solid.)  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. (Expansion.)  
Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Adjustable; Sole distributors to replacement trade Lempeo Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
McCrosky Tool Corp., S. Main St., Meadville, Pa. (Adjustable.)  
Madison Mfg. Co., 687 W. Clay St., Muskegon, Mich. (Adjustable.)

Martindale Electric Co., 1840 Hird Ave., Cleveland 7, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
National Twist Drill & Tool Co., Rochester, Mich. (Solid.)  
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.  
O. K. Tool Co., Milford, N. H. (Adjustable.)  
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.  
Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.  
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill. (Expansion; also solid valve guide.)  
Reiff & Nestor Co., Lykens, Pa.  
Reltool Corp., 4540 W. Burnham St., Milwaukee 46, Wis.  
Shearcut Tool Co., 7046 Darby Ave., Resida, Calif.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Standard Tool Co., 3950 Chester Ave., Cleveland 14, Ohio.  
Staples Tool Co., 2352 Glendale-Milford Rd., Cincinnati 15, Ohio.  
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich.  
Tungsten-Carbide Tool Co., 26250 W. 7-Mile Rd., Detroit 19, Mich.  
Union Twist Drill Co., Monroe St., Athol, Mass.  
Union Twist Drill Co., Butterfield Div., Derby Line, Vt. (Solid and expansion.)  
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ohio.  
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Solid.)  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.  
Waukesha Cutting Tools, Inc., Midland & Pearl St., Waukesha, Wis.  
Wendt-Sonis Co., Hannibal, Mo. (Solid carbide tipped.)  
Wesson Tool Co., 12200 Woodward Heights Blvd., Ferndale 20, Mich.  
Wetmore Reamer Co., 420 N. 27th St., Milwaukee 8, Wis. (Adjustable.)  
Whitman & Barnes, Div. of United Drill & Tool Corp., 40088 Plymouth Rd., Plymouth, Mich. (Solid and expansion.)  
Wickman Mfg. Co., 10325 Capitol Ave., Oak Park, Detroit 37, Mich. (Adjustable floating.)  
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.  
Wilson, Inc., K. R., Arcade, N. Y.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

## REAMERS, VALVE SEAT, See Tools, Valve Seat Refinishing RECAPING & RETREADING, See Molds, Tire Recapping & Retreading

## RECLAIMERS, Crankcase Oil

Port Mfg. Co., 37 E. South St., Akron 11, O.  
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y.

## RECORD MACHINES, Accounting (Advertisers only)

National Cash Register Co., Dayton 9, Ohio.

## RECORDERS, Vibration

Impact-O-Graph Corp., 1900 Euclid Ave., Cleveland 15, Ohio.

## RECORDERS, Vehicle Movement

Engler Instrument Co., 250 Culver Ave., Jersey City 5, N. J.  
Sangamo Electric Co., Converse & N. 10th St., Springfield, Ill. (Sole distributors, Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.)  
Service Recorder Co., 1013F, Rockwell Ave., Cleveland 14, Ohio.  
United States Taximeter Co., 514 W. 64th St., New York 19, N. Y.  
Wagner Electric Corp., 6476 Plymouth Ave., St. Louis 14, Mo.

## REFACERS, Valve, Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Ia.

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Skill Corp., 5033 Elston Ave., Chicago 30, Ill.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Thor Power Tool Corp., Prudential Bldg., Chicago, Ill.  
Tobin-Arp Mfg. Co., 6400 Penn Ave. S., Minneapolis 23, Minn.  
Van Norman Co., Automotive Equip. Co., 3640 Main St., Springfield 7, Mass.  
Waterbury Tool, Div. of Vickers, Inc., 118 E. Aurora St., Waterbury 91, Conn.  
Wilson, Inc., K. R., Arcade, N. Y.

## REFLECTIVE MATERIALS

By-Buck Co., 4314 W. Pico Blvd., Los Angeles 6, Calif.  
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul, Minn.  
Prismo Safety Corp., Huntington, Pa.

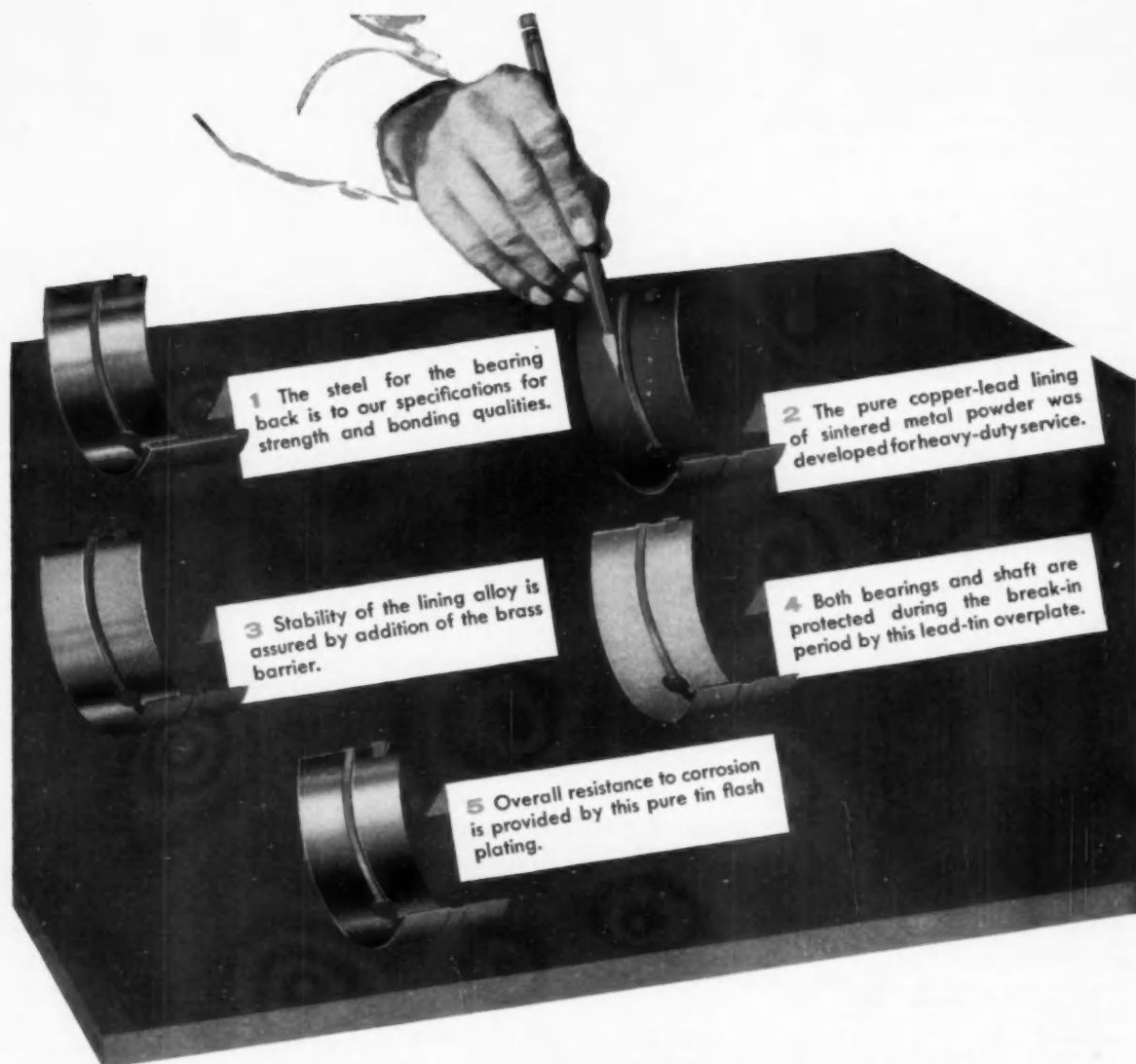
## REFLECTORS, Safety

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill.  
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass.  
Anthes Force Oil Co., Ft. Madison, Iowa.  
Arrow Safety Device Co., Mt. Holly, N. J.  
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill.  
Blue Island Engr. & Supply Co., 5840 S. Oakley Ave., Chicago 56, Ill.  
Bolser Corp., S. Main St., Cedar Falls, Iowa.  
Cole Automotive Products Co., 2706 S. Michigan Ave., Chicago 16, Ill. (For trucks, trailers and buses.)  
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.  
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.  
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.  
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.  
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.  
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.  
Gulotta Co., Charles, 81-20 Cooper Ave., Glendale 27, N. Y.  
Johnson Glass & Plastic Corp., 5248 Elston Ave., Chicago 30, Ill.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. (Red, green or amber reflecting glass.)  
Miro-Flex Co., 1824 E. Second St., Wichita 7, Kan.  
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.  
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.  
Peterson Mfg. Co., 2716 E. 14th St., Kansas City 27, Mo.  
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.  
Snow-Craggs Corp., 5840 S. Oakley Ave., Chicago 36, Ill.  
Sparton Automotive Div. of Sparton Corp., Jackson, Mich. (Red and amber.)  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.  
Stimsonite Div. of Elastic Stop Nut Corp. of America, 3445 N. Kimball Ave., Chicago 18, Ill.  
Superior Parts Mfg. Corp., 1922 W. Grand Ave., Chicago 22, Ill.  
U. S. Tool & Mfg. Co., 1832 N. Sheffield Ave., Chicago, Ill.  
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. (Bus, truck and trailer.)  
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

## REFRIGERATION CONTROLS

General Controls Co., 801 Allen Ave., Glendale 1, Calif.





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COMMERCIAL CAR JOURNAL, November, 1957

**197**

## refrigerating units to removers ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

CCJ's Product Directory

### REFRIGERATING UNITS, Truck and Trailer

Air Induction Corp., 122 W. 30th St., New York 1, N. Y.  
American Mfg. Co., P. O. Box 989, Montgomery 2, Ala. (Gasoline, hydraulic and electric driven.)  
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.  
Coldmobile Div. Union Asbestos & Rubber Co., 2900 W. Vermont St., Blue Island, Ill. (Mechanical.)  
Copeland Refrigeration Corp., Short Clinton St., Sidney, Ohio.  
Dole Refrigerating Co., 5962 N. Pulaski Rd., Chicago 30, Ill. (Vacuum cold plate evaporators.)  
Dyna-Kold Corp., 3221 20th St., San Francisco 10, Calif.  
Foster-Built Bunkers, Inc., 757 W. Polk St., Chicago 7, Ill. (Dry ice.)  
Frank-Dewey Co., 12334 Stark Rd., Livonia, Mich. (Electric.)  
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.  
General Electric Co., Section F-704-60, Schenectady, N. Y.  
Hunter Mfg. Co., 1550 E. 17th St., Cleveland 14, Ohio. (Dry ice.)  
Illinois Auto Electric Co., 2111 S. Indiana Ave., Chicago 16, Ill. (Sales outlet.)  
Keco Industries, Inc., 2332 Spring Grove Ave., Cincinnati 25, Ohio.  
Kold Hold Div. of Tranter Mfg., Inc., 620 E. Hazel St., Lansing 4, Mich.  
Lehigh Mfg. Co., Div. of Lehigh, Inc., Fountain Ave., Lancaster, Pa.  
McGraw-Edison Co., Clark Div., 5201 W. 65th St., Chicago 58, Ill. "Tropic-Aire," "Carrier."  
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y.  
Pure Carbonic Co., Div. Air Reduction Co., Inc., 150 East 42nd St., New York 17, N. Y.  
Schwitzer-Cummins Company, 1125 Massachusetts St., Indianapolis 7, Ind.  
Sunderland Machine Tool Co., Rockford, Ill.  
Tecumseh Products Co., Tecumseh, Mich.  
Thermo King Corp., 44 S. 12th St., Minneapolis 3, Minn.  
Theurer Wagon Works, Inc., 401 W. 56th St., New York 19, N. Y.  
Tru Kooler, Inc., 135 S. Frederick Ave., Oelwein, Iowa.  
Wisconsin Motor Corp., Milwaukee 46, Wis.

### REGROOVERS, Tire

Bean Div. Food Machinery & Chemical Corp., 1305 S. Cedar St., Lansing 4, Mich.  
Big-Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio.  
International Equipment Co. Div. Morrison Railway Supply Corp., P. O. Box 185, Sta. F, Buffalo, N. Y. (Sole distributors Jack P. Hennessy Sales Co., Englewood, N. J.)  
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.  
Mertens Mfg. Co., 1533 Hamilton Ave., Racine, Wis.  
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.  
Thompson & Sons, O. E., 111 Quimby St., Westfield, N. J. (Electrically heated, hand operated.)

### REGULATORS, Current and Voltage

American Bosch Corp., Springfield 7, Mich.  
American Motor Products Co., Fond du Lac, Wis.  
Arrow Armature Co., 15 Fordham Rd., Boston 24, Mass.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Ecklin Mfg. Co., U. S. Route 1, Branford, Conn.  
Electra Mfg. Co., 800 N. 21st St., Independence, Kan.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Frederick Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.  
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill.  
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill. (Voltage.)  
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.

Kal-Equip Co., Box 567, Kalamazoo, Mich.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Leece-Neville Co., 1874 E. 51st St., Cleveland 3, Ohio.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 3, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.  
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.  
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.  
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.  
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.  
United Motor Service, General Motors Bldg., Detroit 2, Mich.  
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.  
Wells Mfg. Corp., 290 W. Division St., Fond du Lac, Wis.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

### REGULATORS, Humidity, Paint Shop

Bristol Co., Waterbury 20, Conn.  
Electra Mfg. Co., 2537 Madison Ave., Kansas City 3, Mo.  
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.  
Powers Regulator Co., 3400 Oakton St., Skokie, Ill.  
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

### RELAYS, Horn and Light

American Motor Products Co., Fond du Lac, Wis.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Ecklin Mfg. Co., U. S. Route 1, Branford, Conn.  
Electra Mfg. Co., 800 N. 21st St., Independence, Kans.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
Frederick Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.  
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb. (Horn.)  
Kem Mfg. Co., 20 Wagaraw Rd., Fair Lawn, N. J.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
New York Coll Co., 42 Second Ave., Phoenixville, Pa.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 3, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.  
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Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, L. I., N. Y.  
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Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.  
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.  
Wells Mfg. Corp., 290 W. Division St., Fond du Lac, Wis. (Light.)  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

REMOVERS, OIL AND GREASE. See Solvents, Oil Carbon and Grease Removing

### REMOVERS, Paint, Enamel and Varnish

Acme Quality Paints, Inc., 2350 St. Aubin Ave., Detroit 11, Mich.  
American Chemical Paint Co., Brookside Ave. & Reading R.R., Ambler, Pa.  
American Varnish Co., 1139 N. Branch St., Chicago 22, Ill.  
Arco Co., 7301 Bessemer Ave., Cleveland 27, Ohio.  
Ball Chemical Co., 524 Federal St., Pittsburgh 12, Pa.  
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. (Sole distributors, Klean Strip Co., Box 3665, Memphis 6, Tenn.)  
Brown Co., Andrew, 5481 District Blvd., Los Angeles 22, Calif.  
Brulin & Co., 2939 Columbia Ave., Indianapolis 7, Ind.  
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Downey, Calif.  
Celco Corp., 110 E. 42nd St., New York 17, N. Y.  
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif. (Oil base paint.)  
Continental Car-Na-Var Corp., Brazil, Ind.  
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.  
Curran Corp., S. Canal St., Lawrence, Mass.  
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill.  
Delta Chemical Co., 2885 Warford St., Memphis 1, Tenn.  
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.  
Dittler Color Div. of Pittsburgh Plate Glass Co., 8090 W. Chicago Ave., Detroit 4, Mich.  
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.  
Fine Organics, Inc., 211 E. 19th St., New York 3, N. Y.  
Fischer Industries, Inc., Paddock Rd. & N. & W. R.R., Cincinnati 20, Ohio.  
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. (Hot.)  
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill.  
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.  
Kelite Products Corp., 1250 N. Main St., Los Angeles, Calif.  
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.  
Lee Mfg. Co., 16 Cherry Ave., Waterbury 20, Conn.  
Magnus Chemical Co., 155 South Ave., Garwood, N. J.  
Martin-Senour Co., 2500 Senour Ave., Chicago 8, Ill.  
Modene Paint Co., 305 Eastern Ave., Chelsea 50, Mass.  
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. (Paint and varnish.)  
Nason & Co., R. N., 161 Potrero Ave., San Francisco, Calif.  
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich.  
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y.  
Paint Remover Chemicals Corp., 2440 Gilbert Ave., Cincinnati 6, Ohio.  
Panther Chemical Co., P. O. Box 711, Fort Worth, Tex.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15, Mo.  
Penstone Co., 74 Hudson Ave., Tenafly, N. J.  
Permo Products Corp., 1629 Platte St., Denver 2, Colo.  
Pioneer Chemical & Mfg. Co., 9312 Meach Ave., Cleveland 5, Ohio.  
Rosaul Co., 170 Fifth Ave., New York 10, N. Y.



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Why pay for idle trucks? You can get rid of them and *still* have trucks for peak loads and emergencies. How? Simply by renting extra trucks you need from Hertz!

All you do is send your driver over to Hertz with proper driver's license and identification. We'll give him the keys to a clean, modern

Chevrolet or other sturdy truck. It's yours an hour, day or longer—just like having your own truck!

Cost? In Kansas City, Missouri, for instance, a 1½-ton van truck costs only \$8.50 for 24 hours plus 11 cents a mile (lower by the week). Just \$14.00 for a 50-mile trip! And that includes all gasoline, oil and

proper insurance. That's The Hertz Idea. You'll slash your truck fleet, cut operating costs, and help yourself to a fast, dependable delivery service. Call your local Hertz office listed under "Hertz" in *alphabetical* phone books everywhere! Hertz Truck Rental, 218 S. Wabash Ave., Chicago 4, Ill.

*Hertz rents Chevrolets or other sturdy trucks in ½-, 1- or 2-ton sizes with pick-up, panel, van or stake bodies.*



*Most experienced...by far*

**HERTZ**  
Truck rental

# resistors to rods

CCJ's Product Directory

## REMOVERS—continued

Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.  
Standard Tech Chemicals, Inc., 2600 Richmond Terrace, Staten Island 3, N. Y.  
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 8, Mo.  
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.  
Wilbur & Williams Co., 130 Lincoln St., Brighton, Mass.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## RESISTORS, Ignition

Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.

## RESURFACERS, Floor

Monroe Co., Inc., 10703 Quebec Ave., Cleveland 6, Ohio.  
Stonhard Co., 1306 Spring Garden St., Philadelphia 23, Pa.

## RETAINERS, Oil and Grease

Acadia Div., Western Felt Works, 4115 Ogden Ave., Chicago 23, Ill. (Synthetic rubber.)  
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.  
Atlas Asbestos Co., 469 Walnut St., North Wales, Pa. (Water pump.)  
Booth Felt Co., 476 19th St., Brooklyn 15, N. Y. (Felt.)  
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.  
Cartisreal Corp., 3515 W. Touhy Ave., Lincolnwood, Ill.  
Chicago Rawhide Mfg. Co., 1301 Elston Ave., Chicago 22, Ill.  
Copeland-Gibson Products Corp., 12950 Capital Ave., Oak Park 37, Mich.  
Crane Packing Co., 6435 Oakton St., Morton Grove, Ill.  
Felt Products Mfg. Co., 7450 N. McCormick Blvd., Chicago 80, Ill.  
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.  
Garlock Packing Co., 402 Main St., Palmyra, N. Y.  
Graphite Metallizing Corp., 1080 Nepperhan Ave., Yonkers 3, N. Y.  
Graton & Knight Co., 356 Franklin St., Worcester 4, Mass. (Synthetic, to order.)  
Kiekhoefer Mfg. Co., 901 S. 2nd St., Milwaukee 4, Wis.  
Krug Co., North St., Barnum Court, Danbury, Conn.  
Lothrop Co., Frank B., 81 River St., South Acton, Mass.  
McCord Corp., Riolpelle at E. Grand Blvd., Detroit 11, Mich.  
Mechanex Corp., 1144 Broadway, Denver 3, Colo.  
Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich.  
Muskegon Piston Ring Co., Muskegon Div., Sixth & Alpha Sts., Muskegon, Mich.  
National Seal Div., Federal-Mogul-Bower Bearings, Inc., Broadway at National Ave., Redwood City, Calif.  
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio.  
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.  
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.  
Rodie Chemical & Rubber Corp., Allen Ave., New Brunswick, N. J.  
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.  
Standard Seal Co., Van Wert, Ohio.  
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind.  
Trautner Mfg. Co., 876 University Ave., St. Paul 4, Minn.  
Union Bearing Co., 403 E. Jersey St., Elizabeth, N. J.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, N. Y. 20, N. Y.  
Universal Oil-Seal Co., 34 W. Kennett Rd., Pontiac, Mich.  
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.  
Western Felt Works, 4021 W. Ogden Ave., Chicago 23, Ill. (Felt.)

## RIMS, Wheel

Branick Products Co., Inc., 2600 Third Ave., N., Fargo, N. D.  
Cleveland Welding Co., W. 117th St. & Berea Rd., Cleveland 7, Ohio.  
Firestone Steel Products Co., 1600 Firestone Parkway, Akron 10, Ohio.  
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio. (Bus and truck.)  
Kelsey-Hayes Wheel Co., 3800 Military Ave., Detroit 32, Mich.  
Motor Wheel Corp., 735 E. Saginaw St., Lansing 2, Mich.

## RINGS, Piston

American Hammered Automotive Replacement Div., 2001 Sanford St., Muskegon, Mich.  
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.  
Cord Piston Ring Mfg. Co., 1351 S. Olive St., Los Angeles 16, Calif.  
Double Seal Ring Co., 2065 Montgomery St., Ft. Worth, Tex.  
Gill Piston Ring Co., 1536 E. 75th St., Chicago 17, Ill.  
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.  
Haling Co., 1061 First Ave., Rochester, Minn.  
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.  
International Parts Corp., 11th & State Sts., Chicago 5, Ill.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.  
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis 10, Mo.  
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
Muskegon Piston Ring Co., Muskegon Div., Sixth & Alpha Sts., Muskegon, Mich.  
Pacific Piston Ring Co., 1410 S. Los Angeles St., Los Angeles 16, Calif.  
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.  
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.  
Republic Engr. & Mfg. Co., 6555 Wells Ave., St. Louis 14, Mo.  
Richmond Ring Co., Souderton, Pa.  
Roberts Mfg. Co., 118 Monroe St., St. Charles, Mo.  
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
Simplex Piston Ring Mfg. Co., 12301 Bennington Ave., Cleveland 11, Ohio.  
Steel-Bronze Sealing Rings Co., 540 S. Meridian St., Indianapolis 25, Ind. (Steel or bronze.)  
Superior Piston Ring Co., 6425 Epworth Blvd., Detroit 10, Mich.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
Valv-Lite Piston Ring Co., Sheperd St., Toledo 1, Ohio.  
Wausau Motors Parts Co., 1008 Harrison Blvd., Wausau, Wis.  
Wel-Ever Piston Ring Co., 1701 Spellbusch Ave., Toledo 1, Ohio.  
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.  
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.

## RINGS, PISTON EXPANDERS, See Expanders, Piston Ring

## RIVETERS

Barrett Equipment Co., 21st and Cass Ave., St. Louis 6, Mo.  
Bunell Machine & Tool Co., 1601 E. 23rd St., Cleveland 14, Ohio.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Portable pneumatic.)  
Chicago Rivet & Machine Co., 9803 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.)  
Dally Machines Specialties, Inc., 2100 Laramie Ave., Chicago 50, Ill.  
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.  
Grant Mfg. & Machine Co., 90 Sillman Ave., Bridgeport 5, Conn.  
Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill. (Pneumatic and hydraulic.)  
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Hydraulic.)  
High Speed Hammer Co., 313 Norton St., Rochester 5, N. Y.

Hydraulic Press Mfg. Co., Mount Gilead, Ohio.  
Independent Pneumatic Tool Co., 176 State St., Aurora, Ill. (Portable pneumatic.)  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Lemert Engr. Co., 201 E. Jefferson St., Plymouth, Ind.  
Lemco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.  
Milford Rivet & Machines Co., Post Rd., Milford, Conn.  
National Rivet & Mfg. Co., Waupun, Wis.  
Nugler Co., F. A., 1748 Berkeley St., Santa Monica, Calif. (Ring gear.)  
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill. (Pneumatic.)  
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.  
Star Machine & Tool Co., 233 Sixth St., S.E., Minneapolis 14, Minn.  
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich.

## RIVETS, Blind

Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.  
du Pont de Nemours & Co., E. I., Explosives Dept., Wilmington 98, Del. (Industrial.)  
Goodrich Co., Industrial Products Div., B. F., 500 S. Main St., Akron, Ohio.  
Hi-Shear Rivet Tool Co., 2600 W. 247th St., Torrance, Calif.  
Huck Mfg. Co., 2480 Bellevue Ave., Detroit 7, Mich. (Aluminum and steel.)  
South Chester Corp., Southco Div., 228 Industrial Highway, Lester, Pa.  
Townsend Co., New Brighton, Pa.

## RODS, CONNECTING, See Connecting Rods

## RODS, Welding

Acme Electric Welder Co., 2618 Fruitland Ave., Los Angeles 58, Calif.  
Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.  
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
Alloy Rods Co., W. Market St., York, Pa.  
All-State Welding Alloys Co., 249 Ferris Ave., White Plains, N. Y.  
Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.  
American Brass Co., 414 Meadow St., Waterbury 20, Conn.  
American Steel & Wire Div., United States Steel Corp., Rockefeller Bldg., Cleveland 13, Ohio.  
Ampeco Metal, Inc., 1737 S. 38th St., Milwaukee 15, Wis. (Bronze.)  
Atlantic Steel Co., 16th & Mccaslin Sts., Atlanta, Ga.  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.  
Burdett Oxygen Co. of Cleveland, Inc., 3309 Lakeside Ave., Cleveland 14, Ohio.  
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.  
Crucible Steel Co. of America, 535 Smithfield St., Pittsburgh, Pa.  
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.  
Eutectic Welding Alloys Corp., 40-40 172nd St., Flushing, N. Y.  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.  
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis.  
Haynes Stellite Co. (a div. of Union Carbide & Carbon Corp.), 725 S. Lindsay St., Kokomo, Ind. (Hard facing.)  
Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.  
International Nickel Co., 67 Wall St., New York 5, N. Y. (Cast iron.)  
Krems & Co., 669 W. Ohio St., Chicago 10, Ill.  
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. (Coiled.)  
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.  
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind. (Resistance.)  
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.  
Metal & Thermit Corp., Rahway, N. J.  
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.  
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.



*SURE, POWER STEERING  
MAKES THE JOB EASIER.  
BUT IT'S THE ADDED SAFETY  
THAT COUNTS MOST.*

*OUR POWER-STEERED  
RIGS STAY ON SCHEDULE  
BETTER, TOO.*

*EITHER WAY,  
POWER STEERING MAKES  
GOOD BUSINESS SENSE.*



## THE CASE FOR POWER STEERING ON TRUCKS!

The trend to power steering on trucks is based on one very practical reason—operators of trucks equipped with power steering have invariably found that the added safety and greater operating efficiency of their vehicles have demonstrated that power steering is indeed a sound investment.

Truck drivers using power steering report less tension and fatigue in normal driving and appreciate the positive control that blocks road shock from chuck holes and prevents loss of control if the truck is forced out on a soft shoulder.

The dispatcher knows the importance of regularly maintained schedules. He is quite aware that with power steering drivers are more relaxed and are better drivers than tired drivers. Thus, power steering not only reduces the hazard of road accidents, but helps the driver to maintain established schedules through better vehicle control.

In short, power steering, by saving time and money, contributes materially to a more profitable operation.

Truck manufacturers are always eager to offer their customers features

that will make truck operation safer and more profitable and, at the same time, give their dealers every selling advantage.

That's why more and more truck manufacturers are offering performance-proven Bendix\* Power Steering as original factory equipment.

If you would like to know why power steering for trucks is perhaps even more logical than power steering for passenger cars, we have prepared an interesting folder on the subject.

Write for your copy today. We think you'll be convinced.

\*REG. U.S. PAT. OFF.

**Bendix** PRODUCTS DIVISION **South Bend IND.**



## rollers to saws

CCJ's Product Directory

### RODS—continued

National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.  
Page Steel & Wire Div., American Chain & Cable Co., P. O. Box 692, Monessen, Pa.  
Revere Copper and Brass, Inc., 230 Park Ave., N. Y. 17, N. Y. (Copper, brass and bronze.)  
Sight Feed Generator Co., West Alexandria, Ohio.  
Smith Corp., A. A., 27th & Hopkins Sts., Milwaukee 1, Wis.  
Speer Carbon Co., St. Marys, Pa.  
Titan Metal Mfg. Co., Bellefonte, Pa.  
Wall Colmonoy Corp., 1945 John R St., Detroit 3, Mich.  
Welding Equipment & Supply Co., 223 Leith St., Detroit 7, Mich. (Tool steel; alloy.)  
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

### ROLLERS (Construction & Off Highway)

Acme Iron Works (Ingram), P.O. Box 2020, San Antonio, Texas.  
Austin Western Works, Construction Equipment Div., Baldwin-Lima-Hamilton Corp., 601 Farnsworth Ave., Aurora, Ill.  
Browning Manufacturing Co., P.O. Box 2707, San Antonio, Texas.  
Buffalo-Springfield Roller Co., 1210 Kenton St., Springfield, Ohio.  
C. H. and E. Manufacturing Co., 3849 N. Palmer St., Milwaukee 12, Wis.  
Huber-Warco Co., 202 N. Greenwood St., Marion, Ohio.  
Seaman-Gunnison Corp., 2763 S. 27th St., Milwaukee 15, Wis.  
Shovel Supply Co. (Ferguson), Box 1369—Zone 21, Dallas, Texas.  
Tampe Manufacturing Co., P.O. Box 2340, San Antonio, Texas.

ROTORS, DISTRIBUTORS. See Parts, Ignition

RUB-RAILS, PRESSED STEEL. See Rails, Rub, PRESSED Steel

### RUST PREVENTIVES, Cooling System

Allube Corp., 928 Allen Ave., Glendale 1, Calif.  
Alox Corp., Buffalo Ave. & Iroquois St., Niagara Falls, N. Y.  
Alsol Products Co., 123 Coit St., Irvington, N. J.  
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.  
American Sand-Baum Co., Meadowbrook Natl. Bank Bldg., Freeport, N. Y. (Colloidal tablets.)  
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.  
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Butler Eng. Co., 2610 Russeau St., New Orleans 11, La.  
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass.  
Carbide & Carbon Chemical Co., 30 E. 42nd St., New York 17, N. Y.  
Castoroli Products, Inc., 146 Alexander St., Yonkers, N. Y.  
Chicago Hydraulic Oil Co., 871 E. 116th St., Chicago 28, Ill.  
Choldun Mfg. Corp., 331 East St., New Haven, Conn.  
Commercial Solvents Corp., 260 Madison Ave., New York 16, N. Y.  
Drew & Co., E. F., 15 E. 26th St., New York, N. Y.  
du Pont de Nemours & Co., E. I., Finishes Div., Chemical Specialties Sales, du Pont Bldg., Wilmington 98, Del.  
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.  
Hollingshead Corp., R. M. 840 Cooper St., Camden, N. J.  
Homestead Valve Mfg. Co. (Hypresure Jenny Div.), Narrows Run Rd., Corapolis, Pa.  
Hood Refining Co., P.O. Box 566, Manor, Pa.  
Insulator, Inc., P. O. Box 146, Holly, Mich.  
International Metal Polish Co., 1910 Quill St., Indianapolis 7, Ind.  
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.  
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.  
L & E Mfg. Co., 877 Elm St., Arlington, N. J. (Removing.)

Lenk Mfg. Co., 30-38 Cummington St., Boston 15, Mass. (Preventing.)  
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.  
Magnus Chemical Co., 186 South Ave., Garwood, N. J.  
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City, N. Y.  
Motor Kool Products Co., 605 Buttes Ave., Columbus 8, Ohio.  
National Carbon Co., 30 E. 42nd St., New York 17, N. Y.  
Oakite Products, Inc., 19 Rector St., New York, N. Y.  
Olin Mathieson Chemical Corp., Industrial Chemical Div., Mathieson Bldg., Baltimore 3, Md.  
Park Chemical Co., 8024 Military Ave., Detroit 4, Mich.  
Pennsylvania Refining Co., 2686 Lisbon Road, Cleveland 4, Ohio.  
Permatex Co., 300 Broadway, Huntington Station, New York, N. Y.  
Permo Products Co., 1629 Platte St., Denver 2, Colo.  
Radiator Seal Co., 120 Stutaman St., Council Bluffs, Iowa.  
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C.  
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo.  
Rust Master Chemical Co., 50 Creighton St., Boston, Mass.  
Service Supply Co., 115 7th St., Denver 2, Colo.  
Sinclair Refining Co., 600 Fifth Ave., New York, N. Y.  
Sodrin Corp., 2746 McGee Traffic Way, Kansas City, Mo.  
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.  
Stanley Co., John T., 642 D. 30th St., New York 1, N. Y.  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Pkwy., Chicago 14, Ill.  
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.  
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
Tureo Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.  
U. S. Chemical & Supply Co., 400 E. 10th Ave., North Kansas City 16, Mo.  
Universal Chemical Div., R. M. Hollingshead Corp., 840 Cooper St., Camden 2, N. J.  
V-O Mfg. Co., 13165 Sherman Way, Hollywood, Calif.  
Warehouse Distributing Co., 3810 N. 19th St., Phila. 40, Pa.  
Warner-Patterson Co., 929 S. Michigan Ave., Chicago 5, Ill.  
Water Treatment Co. of America, 1159 Hodgkins St., Pittsburgh 12, Pa.  
Wilco Co., 4425 Bandini Blvd., Los Angeles 25, Calif.  
Wynn Oil Co., 1151 W. Fifth St., Azusa, Calif.  
"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y.  
Zeol. Inc., 3270 S. Third St., Milwaukee 7, Wis.

### SANDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Aro Equipment Corp., Bryan, Ohio.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Buckeye Tools Corp., 5006 Springboro Pike, Dayton 9, Ohio.  
Chicago Pneumatic Tool Co., 6 E. 44 St., New York, N. Y.  
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.  
Cummins Portable Tools, Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.  
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. (Reciprocating.)  
Dremel Mfg. Co., 2420 18th St., Racine, Wis.  
Jones Motrols Corp., 132 Fairfield Ave., Stamford, Conn.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.  
Millers Falls Co., Greenfield, Mass.  
Milwaukee Electric Tool Co., 6350 W. State St., Milwaukee 3, Wis.  
National Air Sander, Inc., 2810 Auburn St., Rockford, Ill.  
Nedco Co., 27 Jones Rd., Waltham, Mass.  
Portable Elect. Tools, Inc., 320 W. 58th St., Chicago 20, Ill.

Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.  
Pratt & Whitney Co., Charter Oak Blvd., West Hartford 1, Conn.  
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 82, Ohio.  
Scott Corp., Douglas, 3931 W. 150th St., Cleveland 11, Ohio.  
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.  
Skill Corp., 5033 Elston Ave., Chicago 30, Ill. "SkillSander." (Belt and disc.)  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.  
Speed Way Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.  
Sundstrand Machine Tool Co., Pneumatic Div., 1020 Ninth Ave., Rockford, Ill.  
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.  
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio.  
Weller Electric Co., 601 Stone's Crossing Rd., Easton, Pa.  
Wen Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.

### SANDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.  
Buckeye Tools Corp., 5006 Springboro Pike, Dayton 9, Ohio. (Bolt and disc types.)  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
Cleco Div. of Reel Roller Bit Co., 5125 Clinton Dr., Houston 1, Tex.  
Detroit Surfacing Machine Co., 1333 E. Eight Mile Rd., Detroit 20, Mich. (Reciprocating.)  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.  
National Air Sander, Inc., 2810 Auburn St., Rockford, Ill.  
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.  
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 82, Ohio.  
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

### SANDERS, Vehicle Traction

Highway Safety Appliances, Div. of Napco Industries, Inc., 834 North Seventh St., Minneapolis 11, Minn.

### SANDPAPER

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Behr-Manning Corp., Troy, N. Y.  
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.  
Clover Mfg. Co., Norwalk, Conn.  
Mid-West Abrasive Co., 510 S. Washington St., Owasco, Mich.  
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn.  
Sandusky Abrasive Wheel Co., Park & Borden, Sycamore, Ill.

### SAWS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Cummins Portable Tools, Div. of John Oster Mfg. Co., 5055 N. Lydell Ave., Milwaukee 17, Wis.  
Dremel Mfg. Co., 2420 18th St., Racine, Wis.  
Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn.  
Greene & Sons, N. R., 3800 Lincolnway W., South Bend, Ind. (Hack saw attachment.)  
Kett Tool Co., 6 E. Third St., Cincinnati 2, Ohio.  
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. (Hack.)  
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.

*Announcing the car that puts your fleet*

## **AHEAD FOR KEEPS...PLYMOUTH!**

Look it over... drive it... check the facts and figures. You'll agree there's no catching Plymouth as *the* fleet buy for 1958!

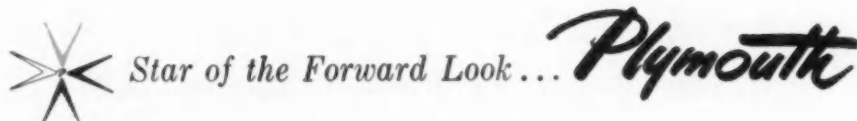
**Economy?** You can bet that the thriftiness that makes Plymouth the reigning Mobilgas Economy Run Champion and the most popular cab in America is even better than ever. *This* time with a choice of five great engines so you can "custom-tailor" to *your* fleet's requirements.

**Prestige?** Plymouth's famed Flight-Sweep Styling is further enhanced for 1958. Long, low, luxurious. This

magnificent new Plymouth is the kind of car your men are proud to drive. A terrific boost for morale!

**Resale value?** Here's one car that'll really pay off big when trade-in time rolls around. Resale figures on the 1957 model are just beginning to come in — and they're the highest of the low-price "3." And they're also a sure-fire indication of what you can expect from this greatest of all Plymouths.

Get all the facts today from your Plymouth dealer. You're sure to join the fleet owners who choose Plymouth for '58.



# This new "Jimmy" Diesel slashes costs in any make truck 26,000 GVW and up

*New GM "71E" Diesel—a superb new engine available for any make  
truck and bus—designed to outperform and outlast anything  
on the road today*

This newest "Jimmy" Diesel has *four* exhaust valves per cylinder and bigger air inlet ports for the cleanest "breathing" known. New free-flow tip injectors atomize tiny fuel charges into cylinders for maximum output without overfueling.

With its basically simple 2-cycle design (power at *every* piston downstroke), there's more power in less space and weight—more work with less piston travel—less loss of power at high altitude. And lower-cost interchangeable parts reduce inventory requirements—*insure lower costs over the entire life of the engine.*

Leading highway haulers who have had the opportunity to benefit from this new "71E" engine report outstanding fuel mileage and reduced upkeep com-

pared with other Diesels they operate and major savings over gasoline engines they have replaced.

See your GM Diesel distributor about repowering your present equipment. When you're in the market for new trucks, ask for this great new GM "71E" Diesel. And if the truck you choose isn't immediately available with a "Jimmy," turn your truck over to the GM Diesel distributor for a "71E" installation. Write for free copy of "It's The Law"—complete compilation of state size and weight limits.

## **DETROIT DIESEL**

**Engine Division of General Motors, Detroit 28, Mich.**

*In Canada: GENERAL MOTORS DIESEL LIMITED, London, Ontario*

### *Regional Offices:*

New York, Atlanta, Detroit, Chicago, Dallas, San Francisco

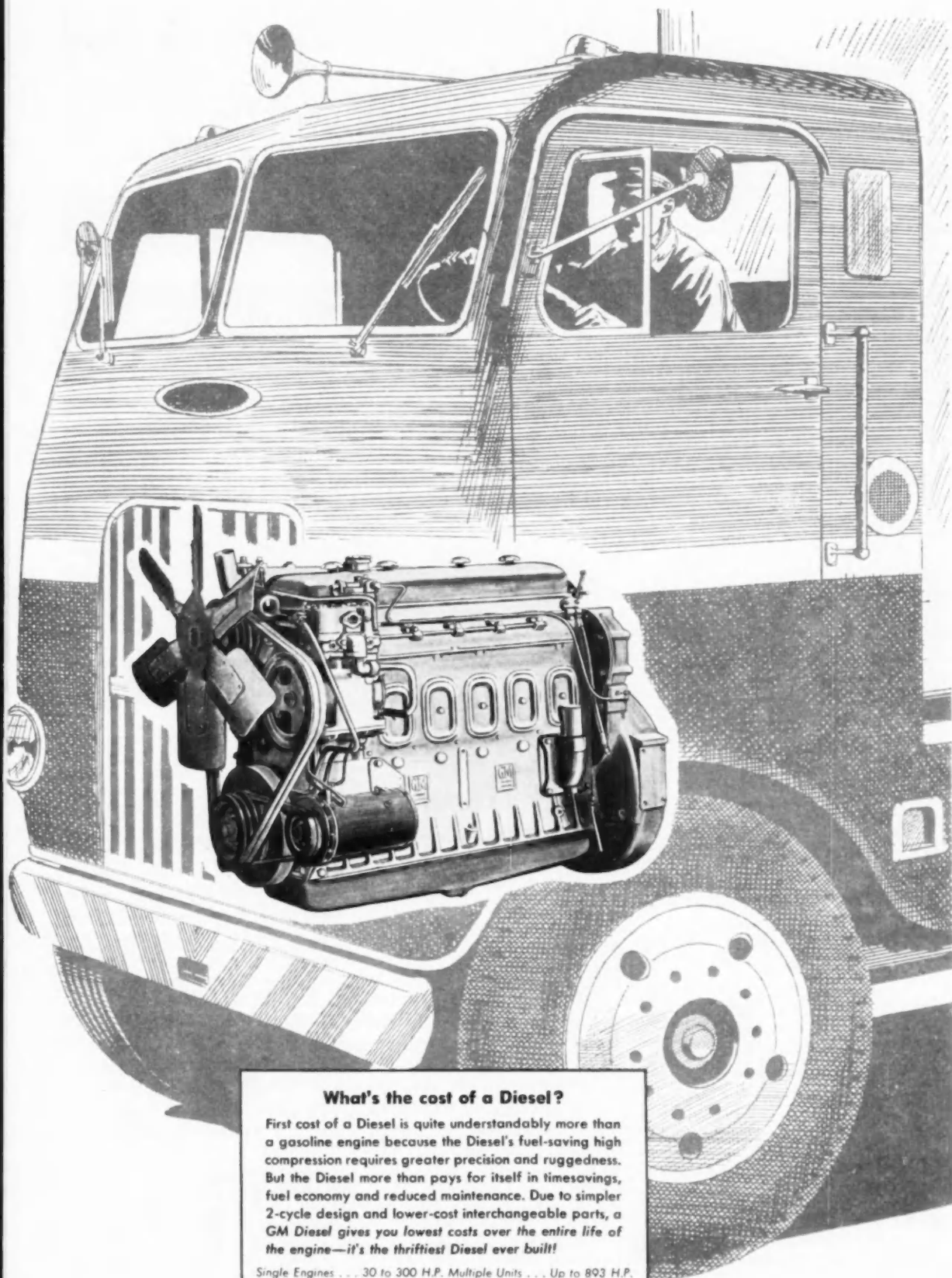
**Now—more than ever—it pays to  
standardize on GM Diesel**



**Parts and Service Worldwide**

**—available in 1485 applications of  
power equipment built by more than  
175 manufacturers**





#### **What's the cost of a Diesel?**

First cost of a Diesel is quite understandably more than a gasoline engine because the Diesel's fuel-saving high compression requires greater precision and ruggedness. But the Diesel more than pays for itself in timesavings, fuel economy and reduced maintenance. Due to simpler 2-cycle design and lower-cost interchangeable parts, a GM Diesel gives you lowest costs over the entire life of the engine—it's the thriftiest Diesel ever built!

Single Engines . . . 30 to 300 H.P. Multiple Units . . . Up to 893 H.P.

## saws to shafting

CCJ's Product Directory

### SAWS—continued

Mid-States Welder Mfg. Co., 6025 S. Ashland Ave., Chicago 26, Ill. (Attachment, for sawing or filing.)  
**Millers Falls Co., Greenfield, Mass.**  
 Milwaukee Electric Tool Co., 5350 W. State St., Milwaukee 8, Wis.  
 Portable Electric Tools, Inc., 820 W. 83rd St., Chicago 20, Ill.  
 Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y.  
 Producers and Distributors, Inc., 1821 Hanover Ave., Allentown, Pa.  
 Skill Corp., 5033 Elston Ave., Chicago 30, Ill.  
 Speed Way Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.  
 Stackhouse, E. H., 219 N. 63rd St., Philadelphia 20, Pa. (Attachment, for sawing and filing.)  
 Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.  
 Syntron Co., 495 N. Lexington Ave., Homer City, Pa.  
 Wren Products, Inc., 5806 Northwest Highway, Chicago 31, Ill.  
 Wysenbeck & Staff, Inc., 223 N. California Ave., Chicago 12, Ill. (Attachments for sawing or filing.)

### SAWS, Portable Pneumatic

Producers and Distributors, Inc., 1821 Hanover Ave., Allentown, Pa.  
 Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.

### SAWS, Power Hack

Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.  
 Covell Mfg. Co., Graham Ave., Benton Harbor, Mich.  
 Maguoketa Co., Clark & Maple Sts., Clinton, Iowa.  
 Peerless Machine Co., 1600 Junction Ave., Racine, Wis.  
 Racine Hydraulics & Machinery, Inc., 2000 Albert St., Racine, Wis.  
 Ryerson & Son, Inc., Jos. T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.  
 St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.

### SCALES, Weighing, Dial Type

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
 Cemco Industries, Inc., First National Bank Bldg., Gallon, Ohio. (Trailer kingpin weigher.)  
 Chatillon & Sons, John, 55-93 Cliff St., New York 38, N. Y.  
 Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.  
 Dillon & Co., W. C., 14620 Kenwick St., Van Nuys, Calif.  
 Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 6, Ill.  
 Howe Scale Co., 3 Scale Ave., Rutland, Vt.  
 Hydroway Scales Inc., 31302 Stephenson Hwy., Madison Heights, Mich.  
 Toledo Scale Co., Telegraph Rd., Toledo 13, Ohio.

### SCALES, Weighing, Platform Type

Bonded Scale & Machine Co., 83 Kingston St., Columbus, Ohio.  
 Buffalo Scale Co., 46 Letchworth St., Buffalo 18, N. Y.  
 Chatillon & Sons, John, 55-93 Cliff St., New York 38, N. Y.  
 Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y.  
 Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 8, Ohio.  
 Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 6, Ill.  
 Howe Scale Co., 3 Scale Ave., Rutland, Vt.  
 Toledo Scale Co., Telegraph Rd., Toledo 13, Ohio.

### SCRAPERS, Bearing

Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.  
 Cornwell Quality Tools Co., Mogadore, Ohio.  
 Millers Falls Co., Greenfield, Mass.  
 Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.

### SCRAPERS, Carbon

Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.  
 Cornwell Quality Tools Co., Mogadore, Ohio.  
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
 Herbert Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
 Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio.  
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
 P & C Tool Co., Box 5926 Milwaukee, Ore.  
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.  
 Quality Tools Corp., Railroad St., New Wilmington, Pa.  
 Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.  
 Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

### SCRAPERS (Construction & Off-Highway)

Allis-Chalmers Manufacturing Co., Box 512, Milwaukee 1, Wis.  
 Caterpillar Tractor Co., Peoria, Ill.  
 Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio.  
 International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.  
 LeTourneau-Westinghouse Co., Peoria, Ill.  
 The Oliver Corp., 400 W. Madison St., Chicago 6, Ill.  
 Wooldridge Manufacturing Div., Continental Copper & Steel Industries, Inc., Hendy Ave., Sunnyvale, Calif.

### SCREW DRIVERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
 Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.  
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
 Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.  
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.  
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
 Kent-Moore Organisation, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.  
 Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.  
 Millers Falls Co., Greenfield, Mass.  
 Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.  
 Skillaw, Inc., 5033 Elston Ave., Chicago 30, Ill.  
 Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.  
 United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.

### SCREW DRIVERS, Portable Pneumatic

Aro Equipment Co., Bryan, Ohio.  
 Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.  
 Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
 Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.  
 Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.  
 Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
 Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.  
 Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.  
 Master Pneumatic Tool Co., 149 Peniman Rd., Orwell, Ohio.  
 Rotor Tool Co., 17825 Euclid Ave., Cleveland 12, Ohio.  
 Skill Corp., 5033 Elston Ave., Chicago 30, Ill.  
**SEALERS, BODY**, See Compounds, Body Sealing  
**SEALERS FOR CASTING REPAIRS**, See Cement, Cast Iron  
**SEALS, OIL & GREASE**, See Retainers, Oil and Grease

### SEATS, Bus

American Seating Co., 9th St. & Broadway, Grand Rapids, Mich. (Reclining.)  
 American Wicker Works Co., 1312 Harmon Pl., Minneapolis 8, Minn.  
 Amesbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich.  
 General Seating Co., 220 Main St., Topton, Pa.  
 National Seating Co., 167 Park Ave. E., Mansfield, Ohio.  
 Troy Sunshade Co., Troy, Ohio.  
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

### SEATS, Truck

(See also Cushions, Seat)  
 American Seating Co., 9th St. & Broadway, Grand Rapids 2, Mich.  
 American Wicker Works Co., 1312 Harmon Pl., Minneapolis 8, Minn.  
 Bostrom Mfg. Co., 138 W. Oregon St., Milwaukee 4, Wis. (Spring suspension.)  
 Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.  
 Comfort Cushion Co., 6062 Loraine Ave., Detroit 8, Mich.  
 General Seating Co., 220 Main St., Topton, Pa.  
 Goodyear Tire & Rubber Co., Automotive Products Dept., E. Market St., Akron 16, Ohio.  
 Ionis Mfg. Co., Div. of Mitchell-Bentley Corp., 121 S. Dexter St., Ionia, Mich.  
 Milaco Mfg. Co., 2738 N. 33rd St., Milwaukee 45, Wis.  
 Milaco Mfg. Co., Dept. T., 2758 N. 33rd St., Milwaukee, Wis. (Foam rubber.)  
 Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Spring suspension.)  
 National Seating Co., 167 Park Ave. E., Mansfield, Ohio.  
 Perma Seating Co., 8800 Kinsman Rd., Cleveland 4, Ohio.  
 Pneumatic Seat Co., 841 Washington Ave., Rochester 17, N. Y.  
 Troy Sunshade Co., Troy, Ohio.  
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

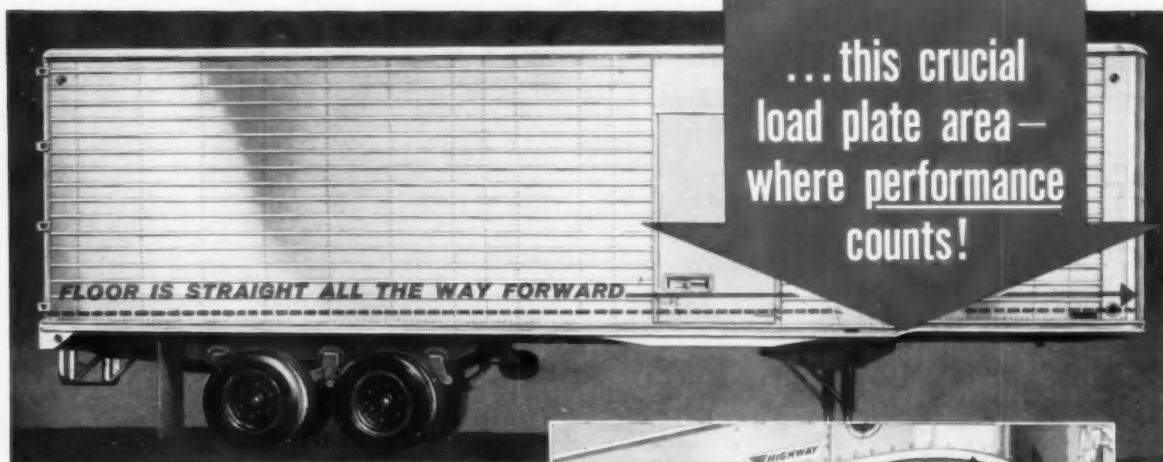
### SEATS, Valve

Albertson & Co., 8100 Lowell Ave., Sioux City, Iowa.  
 Allied Motor Parts Co., Detroit 1, Mich.  
 Burd Platon Ring Co., 1401 23rd Ave., Rockford, Ill.  
 Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
 Eaton Mfg. Co., Saginaw Div., 9771 French Rd., Detroit 13, Mich.  
 Haynes Stellite Co. (a div. of Union Carbide & Carbon Corp.), 725 Lindsay St., Kokomo, Ind.  
 Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.  
 Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.  
 Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D.  
 Parts Processing Corp., 1499 E. Michigan Ave., Battle Creek, Mich.  
 Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.  
 Peterson Welding Laboratories, 1423 Virginia St., Kansas City 6, Mo. (Screw-in type.)  
 Rich Mfg. Corp., Battle Creek, Mich.  
 Thompson Products, Inc., 23655 Euclid Ave., Cleveland 17, Ohio.  
 Toledo Steel Products Div. Thompson Products, Inc., 6402 Cedar Rd., Cleveland 8, Ohio. (Cast iron)  
 Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis.  
 Wells, Inc., Martin, 5836 Compton Ave., Los Angeles 1, Calif.  
 White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

### SHAFTING, Flexible

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Assemblies.)  
 Albertson & Co., 8100 Lowell Ave., Sioux City, Iowa.  
 Barbour-Stockwell Co., 205 Broadway, Cambridge 35, Mass.  
 Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.  
 Electric Auto-Lite Co., Toledo 1, Ohio.

# Here's what no other trailer manufacturer dares to show you!



## Not restricted to single axle tractor operation!

No stress problems due to load or tractor change. Tandem-tandem or single axle operation... the Highway "Level-Flor" carries full-capacity loads every time it hits the road! Highway engineering adds strength, doesn't take it out!

### THE HIGHWAY "LEVEL-FLOR" HIGH-CUBE ECONOVAN • CLIPPER • FREIGHTMASTER

Here's the trailer Highway held back until we could present the *only* high-cube unit built without compromise. No tractor interchange problems — tandem-tandem or single axle operation. Strength has been added — not taken out. Again Highway offers that profit-making extra performance you have come to expect and get.

For complete information write for the new Highway "Level-Flor" brochure.



Unique welded box beam and I-Beam construction maintains full strength forward and assures long, trouble-free service life. Best strength-to-weight ratio on the market.

High-tensile steel members throughout load plate area means dependable service, load-to-load and tractor-to-tractor, without schedule delay.

Full, four-inch box member guarantees work-horse duty year after year — assures extra cube, payload profits no matter what your local operating needs!

Added strength at this crucial point makes this the *only* high-cube, straight floor trailer with no tractor interchange problems! Built to fill the actual operating needs of today's transport industry!

With Highway Trailers... the most important feature is **PERFORMANCE!**

## HIGHWAY TRAILER COMPANY

HEADQUARTERS: EDGERTON, WISCONSIN

Manufacturers of: Commercial Trailers • Trailerized Tanks and Dry-Bulk Haulers • Public Utility Bodies • Earth-Boring Machines • Pole and Cable Reel Trailers • Winches • Power Take-offs • Service Accessories

SALES AND SERVICE IN PRINCIPAL CITIES



A Division of Merritt-Chapman & Scott Corp.





# shafts to shoes

CCJ's Product Directory

## SHAFTING—continued

Elliott Mfg. Co., 350 State St., Binghamton, N. Y.  
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. Y.  
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.  
Hygrade Products Div., Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y. (Speedometer.)  
Jarvis Corp., Middletown, Conn.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Speedometer; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
Parts Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y.  
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.  
Speedometer Service Co., 151 Forest St., Montclair, N. J.  
Stewart Mfg. Corp., F. W., 4311 N. Ravenswood Ave., Chicago, Ill.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.  
Stow Mfg. Co., 443 State St., Binghamton, N. Y. (Heavy duty.)  
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago 7, Ill.  
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y.  
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.  
Walker-Turner Div., Kearney & Trecker Corp., 900 North Ave., Plainfield, N. J.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., N. Y. 10, N. Y. (Speedometer.)  
Wysenbeek & Staff, Inc., 223 N. California Ave., Chicago 12, Ill.

## SHAFTS, Power Take-off

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind.  
Stow Mfg. Co., 443 State St., Binghamton, N. Y.

## SHAFTS, Propeller

(Shaft only; for universal joints—see Universal Joints)

Blood Bros. Machine Div., Rockwell Spring & Axle Co., Allegan, Mich.  
Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 11, Ohio.  
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
Detroit Bevel Gear Co., 8130 Jos Campan Ave., Detroit 11, Mich.  
Detroit Universal Div., Chrysler Corp., 6455 Kingsley Ave., Dearborn, Mich.  
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lemco Automotive Inc., 2953 E. 56th St., Cleveland 27, Ohio.)  
Mechanics Universal Joint Div., Borg-Warner Corp., 2020 Harrison Ave., Rockford, Ill.  
Morse Chain Co., Ithaca, N. Y.  
Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.  
Republic Gear Co., 2197 Beaufort Ave., Detroit 7, Mich.  
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.  
Spencer Mfg. Co., N. Main St., Spencer, Ohio.  
Steel and Tubes Div., Republic Steel Corp., 224 E. 121st Cleveland 8, Ohio.  
Timken-Detroit Axle Div., Rockwell Spring & Axle Co., 100 Clark Ave., Detroit 32, Mich.  
U. S. Axle Co., Water St., Pottstown, Pa.

## SHAFTS, Transmission

Cleveland Hone & Mfg. Co., 8816 Harkness Rd., Cleveland 6, Ohio.

## SHEARS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Jefferson Engrg. & Mfg. Co., 269 Walker St., Detroit 7, Mich.  
Millers Falls Co., Greenfield, Mass.  
Skill Corp., 5053 Elston Ave., Chicago 30, Ill.  
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.

## SHIMS, Axle Caster

Accurate Products Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bee-Line Co., Box 569, Davenport, Iowa. (Bronze.)  
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.  
Houser Engrg. & Mfg. Co., 200 E. Spring St., Bluffton, Ind.  
Jibo Tool Co., 130 N. Meade St., Wichita 2, Kan.  
Kwik-Ezee, Inc., 17-23 W. 60th St., New York 25, N. Y.  
Lock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Manbee Equip. Div., Bear Mfg. Co., 185 N. Wabash Ave., Chicago 1, Ill.  
Merrill Engrg. Laboratories, 1230 Lincoln St., Denver 3, Colo.  
Morgan Wheel & Equipment Co., 2007 St. Mary's Ave., Omaha 2, Neb.  
Perfect Equipment Corp., 594 W. Morgan St., Kokomo, Ind.  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind.  
Vanco Products, Inc., 15330 Brookpark Rd., Cleveland 11, Ohio.

## SHIMS, Bearing Adjusting

Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.

## SHIMS, Brake Lining

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.  
Atlas Asbestos Co., North Wales, Pa.  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 8, Mo. (Fibre.)  
Cotke Corp., 228 N. La Salle St., Chicago 1, Ill.  
Grey-Rock Div. of Raybestos-Manhattan, Inc., Mannheim, Pa.  
National Brake Block Corp., 79 Madison Ave., New York, N. Y.  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.  
Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

## SHIMS, Brass and Copper

Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.  
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.  
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York, N. Y. (Brass.)  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.  
Kickhafer Mfg. Co., 901-903 S. Second St., Milwaukee 4, Wis.  
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.  
Laminated Shim Co., 62 Union St., Glenbrook, Conn.  
McCord Corp., Riopelle at E. Grand Blvd., Detroit 11, Mich.  
National Motor Bearing Co., Broad St. at National Ave., Redwood City, Cal. (Brass.)  
Rotax Mfg. Co., 175 Ridge St., Newark 4, N. J. (Brass stock.)  
Standard Seal Co., Van Wert, Ohio.  
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.  
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. (Brass.)  
Whitehead Stamping Co., 1661 W. Lafayette Blvd., Detroit 16, Mich.  
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

## SHIMS, Laminated

Blainell Mfg. Co., 1350 Coronado Ave., Long Beach 4, Calif.

Federal-Mogul Service Div. of Federal-Mogul-Bower Bearings, Inc., 11031 Shoemaker Rd., Detroit 13, Mich.  
Gasket Packing & Specialty Co., 3 Waverly Pl., New York 3, N. Y.  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.  
Laminated Shim Co., 62 Union St., Glenbrook, Conn. (Brass and Steel.)  
National Motor Bearing Co., Broad St. at National Ave., Redwood City, Calif.  
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

## SHIMS, Steel

Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.  
Allmetal Screw Products Co., 821 Stewart Ave., Garden City, N. Y. (Stainless.)  
Champ-items, Inc., 6191 Maple Ave., St. Louis 14, Mo. (Rear axle end play.)  
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich.  
Gasket, Packing & Specialty Co., 3-5 Waverly Pl., New York 3, N. Y.  
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis.  
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.  
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland 14, Ohio.  
Laminated Shim Co., 6208 Union St., Glenbrook, Conn.  
National Motor Bearing Co., Broad St. at National Ave., Redwood City, Calif.  
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.  
Standard Supply Co., 6920 Bryant St., Pittsburgh 6, Pa.  
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.  
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.

## SHOCK ABSORBERS

Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill.  
Briggs Shock Absorber Co., 1148 Euclid Ave., Cleveland, Ohio. (Hydraulic.)  
Delco Products Div., General Motors Corp., 229 E. First St., Dayton, Ohio. (Hydraulic.)  
Gabriel Co., 1148 Euclid Ave., Cleveland 15, Ohio.  
Gilpak Automotive Products Div. of Packer Auto Parts Inc., Roselle, N. J.  
Heckethorn Mfg. & Supply Co., Dyersburg, Tenn. (Licenses.)  
Houdaille Industries, Inc., Buffalo Hydraulics Div., 537 E. Delavan Ave., Buffalo 11, N. Y.  
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Hydraulic.)  
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
Thompson Products, Inc., 23655 Euclid Ave., Cleveland 17, Ohio. (Hydraulic.)  
Toledo Steel Products Div., Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.

## SHOCK ABSORBER FLUID, See Fluid, Hyd. Brake & Shock Absorber

## SHOES, Brake

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. (Bonded)  
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind. (Lined.)  
Fe-adco Corp., 12345 Schaefer Rd., Detroit 27, Mich.  
Grey-Rock Div. of Raybestos-Manhattan, Inc., Mannheim, Pa.  
Grizzly Mfg. Div., Maremont Automotive Products Inc., 700 W. Caroline St., Paulding, Ohio.  
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md. (Lined and unlined)  
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.  
Moraine Products Div., General Motors Corp., Dayton, Ohio.  
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. (Fibre.)  
Pick Mfg. Co., West Bend, Wis. (Lined and unlined.)  
Raybestos Div. of Raybestos-Manhattan, Inc., 75 E. Main St., Stratford, Conn.





# **Any Day Now-POW!**

**BE PREPARED . . .**

**CARRY A SET IN EVERY TRUCK**

• Old Man Winter's winding up that roundhouse swing of his . . . ice and snow that wreck equipment, and schedules too.

Beat him to the punch with WEED V-BARS. Then you'll stop shorter, straighter, safer . . . keep rolling over ice and snow all winter long. And V-BARS wear over twice as long as regular round wire chains.

for safety, performance, economy . . .

Get 'em NOW!

## **WEED V-BAR TIRE CHAINS**

*In Business for Your Safety*

**ACCO**



**AMERICAN CHAIN DIVISION  
AMERICAN CHAIN & CABLE**

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**WEED  
TIRE CHAINS**

# shutters to solvents

CCJ's Product Directory

## SHOES—continued

Raybestos-Manhattan, Inc., Equip. Sales Div., Stratford, Conn.  
Thermoid Co., Whitehead Rd., Trenton 6, N. J.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

## SHUTTERS, Radiator

(See also Covers, Radiator)

Brewer-Titchener Corp., 115 Ft. Watson St., Cortland, N. Y.  
Hardy Mfg. Corp., W. Pearl St., Union City, Ind.  
Kysor Heater Co., Haynes St., Cadillac, Mich.  
Minneapolis-Honeywell Regulator Co., Transportation Div., 2747 Fourth Ave. S., Minneapolis 8, Minn.

## SIGNALS, Direction Indicating

Advanced Mfg. Inc., 1214 W. 254th Street, Harbor City, Calif.  
American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill.  
Anthes Force Oilier Co., Ft. Madison, Iowa.  
Arrow Safety Device Co., Mt. Holly, N. J. (Also flashing stop lights.)  
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 9, Ill. ("Pathfinder," also "Alco" conversion units for converting parking, stop and tail lights into direction indicating signals.)  
Betts Machine Co., 1800 Pennsylvania Ave. W., Warren, Ohio.  
Bolser Corp., S. Main St., Cedar Falls, Iowa.  
Carolina Metal Products, Inc., 2222 South Blvd., Charlotte, N. C.  
Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio.  
Diets Co., R. E., 225 Wilkinson St., Syracuse 1, N. Y.  
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.  
Edward's Air Hose Bracket Co., P. O. Box 860, Sapulpa, Okla.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.  
Electroline Mfg. Co., 2622 E. 51st St., Cleveland 4, Ohio.  
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Also conversion kits.)  
Grote Mfg. Co., Inc., Lafayette & Grandview Aves., Bellevue, Ky. (Also combination stop, tail and license brackets.)  
Guide Lamp Div. General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.  
Industrial Scientific Co., P. O. Box 494, Fresno 9, Calif. (Semaphores type.)  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.  
Miro-Flex Co., 1824 E. 2 St., Wichita 7, Kan.  
Parker Products, Inc., 1415 Washington Ave. S., Minneapolis 4, Minn.  
Rayl Mfg. Co., 217 5th St., Oakland 7, Calif.  
Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (Stop semaphores, for school buses.)  
S. & M. Lamp Co., 119 W. 36th Pl., Los Angeles 54, Calif.  
Signal-Stat Corp., Signal-Stat Bldg., 523-39 Kent Rd., Brooklyn 11, N. Y. (Bus and truck.)  
Sinko Mfg. & Tool Co., 3135 W. Grand Ave., Chicago 22, Ill. (Auxiliary.)  
Sparton Automotive Div. of Sparks-Withington Co., Jackson, Mich. (Also stop lights and combination stop and tail and conversion kits.)  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.  
Tung-Sol Electric Inc., Newark 4, N. J.  
Turnsignal Corp., 2720 W. Susquehanna Ave., Philadelphia 21, Pa.  
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn 38, N. Y.  
Vae-O-Lite Signal Co., 4680 Robidoux Ave., Riverside, Calif. (Semaphores for trucks and trailers.)  
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn. (Truck; also conversion units for converting parking and tail lights into flashing signals.)

## SIGNALS, Gasoline Tank

Scully Signal Co., 174 Green St., Melrose 76 Mass.

## SIGNALS, Low Air Pressure, Brakes

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
Berg Safe-Air Corp., 1712 S. Michigan Blvd., Chicago 16, Ill.  
Cole-Herscoe Co., 20 Old Colony Ave., Boston 27, Mass.  
Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich.  
Monroe Standard, Inc., P. O. Box 366, Gallon, Ohio. (Visual.)  
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.  
Wagner Electric Corp., 6470 Plymouth Ave., St. Louis 14, Mo.

## SIGNALS, Low Brake Fluid

General Metal Products Corp., Moore-Eastwood Div., 171 S. Mulberry St., Wilmington, Ohio.

## SIGNALS, Low Oil Pressure, Engine

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.)  
Kysor Heater Co., Haynes St., Cadillac, Mich.  
Moto-Gard Co., 1104 W. Cabarrus St., Raleigh, N. C. (Also stops engine.)  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago 14, Ill.  
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

## SIGNALS, Low Water Temperature

Hawk Tool & Engineering Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.)  
Kysor Heater Co., Haynes St., Cadillac, Mich.  
Moto-Gard Co., 1104 W. Cabarrus St., Raleigh, N. C. (Also stops engine.)  
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

## SIRENS, HORN, See Horn Sirens

SIX WHEEL ATTACHMENTS, See Axle Units, Third, for Trucks  
SLEEPER CABS, See Cabs, Truck Body

## SLEEVES, Cylinder

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.  
American Hammered Automotive Replacement Division of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.  
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Centrifugally cast.)  
Centrifugal Foundry Co., 1367 W. Sherman Blvd., Muskegon, Mich.  
Detroit Sleeve Mfg. Co., 9373 Hubbell St., Detroit 28, Mich.  
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif.  
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.  
Frank Foundries Corp., 2020 Third Ave., Moline, Ill.  
Hub City Iron Co., 218 First Ave., S.W., Aberdeen, S. D.  
Janney Cylinder Co., 7425 State Rd., Phila. 36, Pa. (Special to order.)  
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.  
Nylen Products, Inc., U. S. 12, Bridgman, Mich.  
Ohio Piston & Machining Co., 5340 Hamilton Ave., Cleveland 14, Ohio.  
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
Shenango-Penn Mold Co., Centrifugal Castings Div., Dover, Ohio.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Toledo Steel Products Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio. (Wet and dry assemblies.)  
Veranick Mfg. Co., Madisonville, Ky. (Dry type.)  
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.

SLUDGE REMOVING COMPOUNDS, CRANKCASE, See Compounds, Crankcase Sludge Removing

## SNOW PLOWS

(See also Trucks, Diesel & Trucks, Gasoline)

Badger Machine Co., 1124 W. 5th St., Winona, Minn.  
Bros., Wm., Boiler & Mfg. Co., 1067 10th Ave., S. E., Minneapolis 14, Minn.  
Burch Corp., Thoman St., Crestline, Ohio.  
Davenport-Beier Corp., 2805 Rockingham Rd., Davenport, Iowa. (Western United States.)  
Donnell Hydraulic Co., Garden Prairie, Ill. (Hydraulic conversion unit.)  
Eshelman Co., Cheston L., 109 Light St., Baltimore 2, Md.  
Flink Co., 502 N. Vermillion St., Streator, Ill.  
Four Wheel Drive Auto Company, E. 82nd St., Clintonville, Wis.  
Frink Sno-Plows, Inc., Clayton, Thousand Islands, N. Y. (Eastern United States.)  
The Gledhill Road Machinery Co., Gallon, Ohio.  
Good Roads Machinery Corp., Minerva, Ohio.  
Gravely Motor Plow & Cultivator Co., Dunbar, W. Va.  
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.  
Klauser Mfg. Co., Dubuque, Iowa. (Rotary.)  
Meyer Prods., Inc., 3599 E. 82nd St., Cleveland 5, Ohio.  
National Lift Co., 225 Madison St., Waukegan, Wis.  
New England Road Machinery Co., 801 E. 6th St., Boston, Mass.  
Napco Products Div., Napco Industries, Inc., 834 N. 7th St., Minneapolis, Minn. (For Willys Jeeps and light trucks.)  
Root Spring Scraper Co., 527 W. North St., Kalamazoo 11, Mich.  
Schneider Iron Works, Inc., 350 Sycamore St., Buffalo 4, N. Y.  
Truck Engrg. Co., 3200 E. Pontiac St., Fort Wayne 4, Ind.  
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.  
Wausau Iron Works, Wausau, Wis.

SOAPS, CAR WASHING, See Detergents

## SOLDERS (Advertisers Only)

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.  
Kester Solder Co., 4205 Wrightwood Ave., Chicago 39, Ill. (Acid-core, body, radiator flux core.)  
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, N. Y. 5, N. Y. (Bar, body, acid core, rosin core.)

## SOLDERS, Body

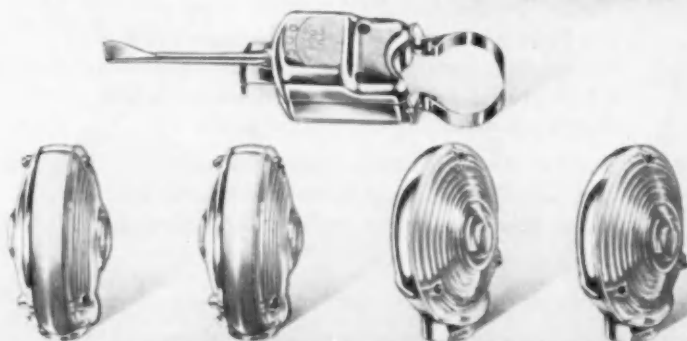
Alpha Metals, Inc., 56 Water St., Jersey City, N. J.  
American Brass Co., Waterbury Brass Goods Branch, 26 Crane St., Waterbury 20, Conn.  
Atomized Materials Co., 207 Rauch Bldg., Pittsburgh 5, Pa.  
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.  
Division Lead Co., 7742 W. 61st Pl., Summit, Ill.  
Dunton Co., M. W., 7 Goff St., Providence 2, R. I.  
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.  
Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit 8, Mich.  
Kester Solder Co., 4201 Wrightwood Ave., Chicago 39, Ill.  
Linde Co. Div. Union Carbide Corp., 30 East 42nd St., New York 17, N. Y.  
Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn.  
National Lead Co., 111 Broadway, New York 6, N. Y.  
New York Solder Co., 684 E. 133rd St., New York 54, N. Y.  
North American Smelting Co., Marine Terminal, Wilmington, Del.  
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.  
River Smelting & Refining Co., 4195 Bradley Rd., Cleveland 1, Ohio.  
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.  
United American Metals Corp., 970 Meeker Ave., Brooklyn 22, N. Y.

## SOLVENTS, Ice

Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. (Ice preventing on windshield.)

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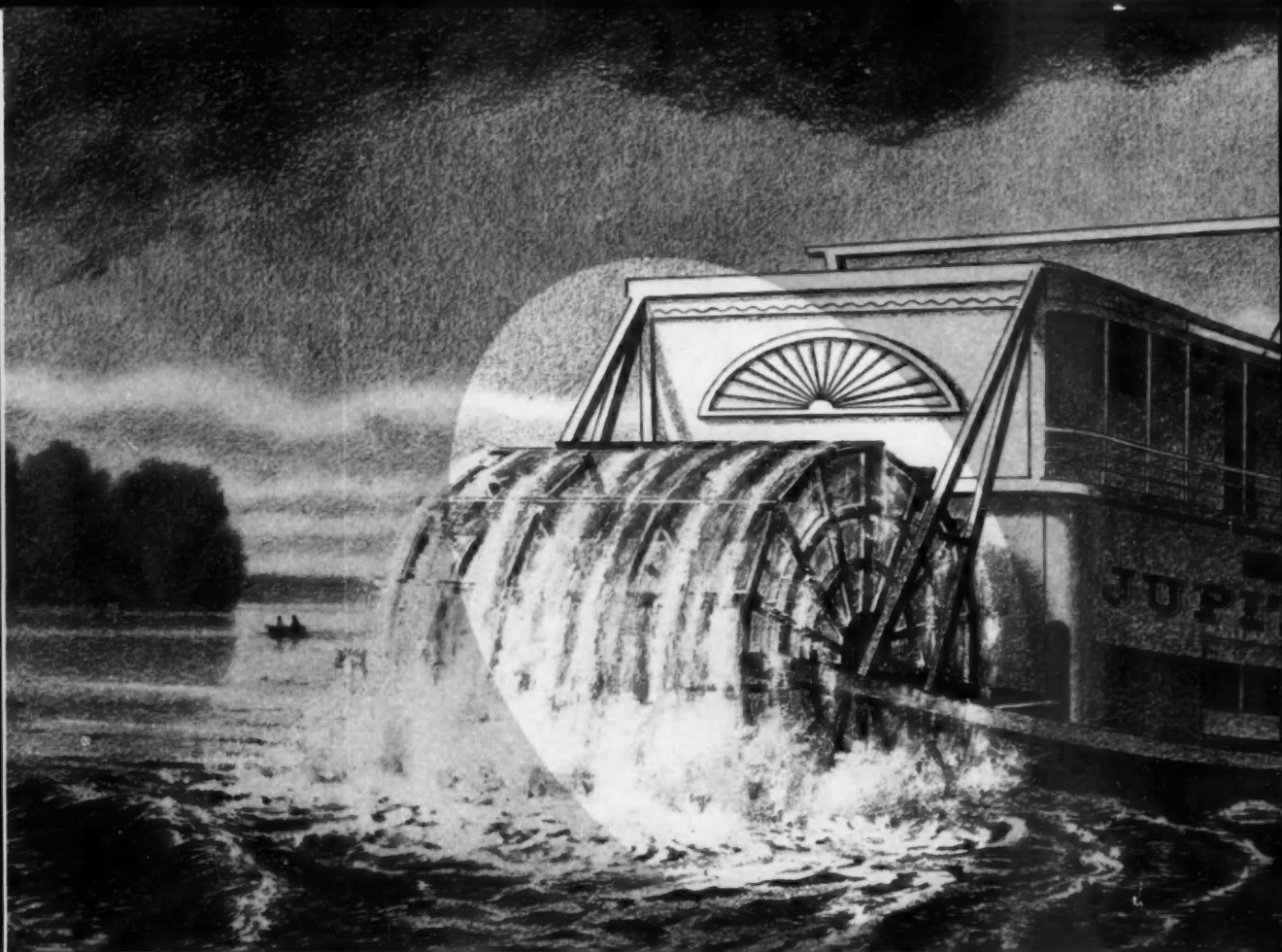
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AKRON—Motor Rim Manufacturers Co.  
ALBANY—Wheels, Incorporated  
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ATLANTA—John A. Harris & Son, Inc.  
BALTIMORE—Standard Wheel & Rim Co.  
BIRMINGHAM—Wheel, Rim & Parts Co.  
BOSTON—New England Wheel & Rim Co.  
BUFFALO—Frey, the Wheelman, Inc.  
CHARLOTTE—Carolina Rim & Wheel Co.  
CHICAGO—Stone Wheel, Inc.  
CINCINNATI—Rim & Wheel Service, Inc.  
CLEVELAND—Motor Rim Manufacturers Co.  
COLUMBUS—Hayes Wheel & Spring Service  
DALLAS—Southwest Wheel, Inc.  
DAVENPORT—Stone Wheel & Rim Co.  
DAYTON—Rim & Wheel Service, Inc.

DENVER—Quinn & McGill Motor Supply Co.  
DES MOINES—Des Moines Wheel & Rim Co.  
DETROIT—H. & H. Wheel Service, Inc.  
EVANSVILLE—Auto Wheel & Rim Co., Inc.  
FARGO—Wheel Service Company  
FORT WAYNE—Wheel & Rim Sales Co.  
GRAND RAPIDS—Rim & Wheel Service Co.  
HARRISBURG—Standard Wheel & Rim Co.  
HARTFORD—Connecticut Wheel & Rim Co.  
HOUSTON—Southwest Wheel, Inc.  
INDIANAPOLIS—Indiana Wheel & Rim Co.  
JACKSONVILLE—Southeast Wheel & Rim Co.  
KANSAS CITY—Borbein, Young & Co.  
KNOXVILLE—John A. Harris & Son, Inc.  
LANCASTER—Standard Wheel & Rim Co.  
LOS ANGELES—Wheel Industries, Inc.

LOUISVILLE—Auto Wheel & Rim Service  
LUBBOCK—Southwest Wheel, Inc.  
MEMPHIS—Beller Wheel, Brake & Supply Co.  
MILWAUKEE—Wisconsin Wheel & Rim Co.  
MOLINE—Mutual Wheel Co.  
NASHVILLE—Beller Wheel, Brake & Supply Co.  
NEWARK—Automotive Safety Inc.  
NEW HAVEN—Connecticut Wheel & Rim Co.  
NEW ORLEANS—Southern Wheel & Rim Co.  
NEW YORK—Wheels, Incorporated  
OKLAHOMA CITY—Southwest Wheel, Inc.  
OMAHA—Morgan Wheel & Equipment Co., Inc.  
OMAHA—Omaha Rim & Wheel Co.  
PEORIA—Peoria Wheel & Rim Co.  
PHILADELPHIA—Kay Wheel Sales Co.  
PHILADELPHIA—Thomas Wheel & Rim Co., Inc.

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 PORTLAND—Six Robbles', Inc.  
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 RALEIGH—Carolina Rim & Wheel Co.  
 RICHMOND—Dixie Wheel Co., Inc.  
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 SALT LAKE CITY—Henderson Rim & Wheel Service  
 SAN ANTONIO—Southwest Wheel, Inc.  
 SAN FRANCISCO—Wheel Industries, Inc.  
 SEATTLE—Six Robbles', Inc.  
 SOUTH BEND—Wheel & Rim Sales Co.  
 SPOKANE—Bearing & Rim Supply Co.  
 SPRINGFIELD, ILL.—Illinois Wheel & Brake Co.  
 SPRINGFIELD, MO.—Borbein, Young & Co.  
 ST. LOUIS—Borbein, Young & Co.  
 ST. PAUL—Wheel Service Co.

SYRACUSE—Wheels, Incorporated  
 TACOMA—Six Robbles', Inc.  
 TOLEDO—Wheel & Rim Sales Co.  
 WICHITA—Borbein, Young & Co.  
 WINSTON-SALEM—United-Automotive Service

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 4900 Euclid Avenue

#### CANADA

CALGARY—Mutual Supplies, Ltd.  
 EDMONTON—Alberta Wheel Distributors, Ltd.  
 MONTREAL—Auto Wheels & Supplies, Ltd.  
 TORONTO—Wheel & Rim Co. of Canada, Ltd.  
 VANCOUVER—Wheels & Equipment, Ltd.  
 WINNIPEG—Ft. Garry Tire & Auto Supplies, Ltd.

**Budd**

# solvents to sprayers

CCJ's Product Directory

## SOLVENTS—continued

Normandy Chemical Corp., 9th & Western, Muskegon, Mich.

## SOLVENTS, Oil, Carbon and Grease

### Removing

Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Mich.  
Allube Corp., 928 Allen Ave., Glendale 1, Calif.  
Alsol Prods. Co., 128 Coit St., Irvington, N. J.  
Atomized Materials Co., 207 Rauch Bldg., Pittsburgh 5, Pa.  
Barr & Co., W. M., 2336 S. Lauderdale St., Memphis 6, Tenn. (Sole distributors, Klean Strip Co., Box 3565, Memphis 6, Tenn.)  
Bendix Products Div., Bendix Aviation Corp., 401 N. Bendix Drive, South Bend 20, Ind.  
Blakeslee & Co., G. S., 1844 S. Laramie Ave., Cicero 40, Ill.  
Briggs Mfg. Co., 3475 E. Outer Drive, Detroit 24, Mich.  
Burlin & Co., Inc., 2939 Columbia Ave., Indianapolis, Ind.  
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio.  
Carbide & Carbon Chemicals Co. (a Div. of Union Carbide & Carbon Corp.), 80 E. 42nd St., New York 17, N. Y.  
Castorol Products, Inc., 145 Alexander St., Yonkers 2, N. Y.  
Cee-Bee Chemical Co., 9520 E. Ceebee Drive, Downey, Calif.  
Celco Corp., 110 E. 42nd St., N. Y. 17, N. Y.  
Circo Equipment Co., 120 Central Ave., Rahway, N. J.  
Cities Service Oil Co. (Pa.), 54 Wall St., New York 5, N. Y.  
Clayton Mfg. Co., 401 N. Temple Bldg., El Monte, Calif.  
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa.  
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.  
Crystal Soap & Chemical Co., 6800 State Rd., Philadelphia 35, Pa.  
Curran Corp., S. Canal St., Lawrence, Mass.  
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.  
Delta Chemical Co., 2885 Warford Pl., Memphis 1, Tenn.  
Detrex Chemical Industries, Inc., Box 601, Detroit 32, Mich.  
Diversey Corp., 1820 Roscoe St., Chicago 13, Ill.  
Dow Chemical Co., Midland, Mich.  
Drew & Co., F. F., Automotive Chemicals Div., 15 E. 26th St., New York, N. Y.  
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio.  
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington 93, Del.  
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.  
Ewing Mfg. Co., 2545 N.W. 10th St., Oklahoma City, Okla.  
Fine Organics, Inc., 211 E. 19 St., New York 3, N. Y.  
Fisher Industries, Inc., Paddock Rd. & N. & W. R. R., Cincinnati 29, Ohio.  
Gerlach Co., A. E., P. O. Box 133, Eddington, Bucks County, Pa.  
Glasten Co., 13 Barnard St., Hillsdale, Mich.  
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.  
Gunk Chicago Co., 630 N. Harlem Ave., River Forest, Ill.  
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.  
Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. (For garage use.)  
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Road, Coraopolis, Pa.  
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich.  
Jarrett Co., Cecil H., Mt. Olive Rd., Newton, N. C.  
Kelite Corp., 1250 No. Main St., Los Angeles 12, Calif.  
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.  
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.  
Lord Chemical Co., 2068 S. Queen St., York, Pa.  
Lubri-Loy Co., 6319 Wilson St., St. Louis 10, Mo.  
M-M-A, Inc., Coho Bldg., Lancaster, Pa.  
Magnus Chemical Co., 185 South Ave., Garwood, N. J.

Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.  
Mitchell-Bradford Chemical Co., Wampus Lane, Milford, Conn.  
Oakite Products, Inc., 19 Rector St., New York 6, N. Y.  
Octagon Process, Inc., 15 Bank St., Staten Island 1, N. Y. (Octastrip.)  
Panther Chemical Co., P. O. Box 711, Fort Worth, Tex.  
Park Chemical Co., 8074 Military Ave., Detroit 4, Mich.  
Peck's Products Co., 610 E. Clarence Ave., St. Louis 15, Mo.  
Penetone Co., 74 Hudson Ave., Tenny, N. J.  
Pennsalt Chemicals Corp., 3 Penn Center, Philadelphia 2, Pa.  
Penray Co., 1532 W. Fulton St., Chicago 7, Ill.  
Permo Products Co., 1629 Platte St., Denver 2, Colo.  
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y.  
Philadelphia Quartz Co., 1146 Public Ledger Bldg., 6th & Chestnut Sts., Phila. 6, Pa.  
Phillips Mfg. Co., 3475 Trough Ave., Chicago 45, Ill. (Oil and grease.)  
Quick Charge, Inc., 1750 N.E. Tenth St., Oklahoma City 4, Okla.  
Ramsey Corp., 3698 Forest Park Blvd., St. Louis 8, Mo.  
Rust Master Chemical Corp., 66 Creighton St., Cambridge, Mass.  
Service Supply Co., 1115 Seventh St., Denver 2, Colo.  
Shaler Co., Waupun, Wis.  
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. (OIL.)  
Speco Inc., 7308 Associate Ave., Cleveland 9, Ohio.  
Stain-Ox Co., 625 E. First Ave., Roselle, N. J. (Oil and grease.)  
Francisco 20, Calif.  
Stanley Co., John T., 642 W. 30th St., New York, N. Y.  
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.  
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif.  
U. S. Chemical & Supply Co., 918 E. Fifth St., Kansas City 6, Mo.  
Virginia-Carolina Chemical Corp., 401 E. Main St., Richmond, Va.  
Warehouse Distributing Co., 3310 N. 19th St., Philadelphia 40, Pa.  
White & Bagley Co., 100 Foster St., Worcester 5, Mass.  
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

## SPACERS, Wheel

Lambert, Inc., Ansonia, Ohio. (Dual.)

SPARK PLUG CLEANERS, See Cleaners, Spark Plug

## SPARK PLUGS

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Almquist Engrg. Co., Milford, Pa.  
American Eagle "Perma-Gap" Spark Plug Corp., 8655 Military St., Detroit 4, Mich.  
Auburn Spark Plug Co., York St., Auburn, N. Y.  
B. G. Corp., 321 Broad Ave., Ridgefield, N. J.  
Blue Crown Spark Plug Corp., P.O. Box 94, Defiance, Ohio.  
Bowers Battery & Spark Plug Co., Reading, Pa.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.  
Circle Tire Sparkplug Co., 820 W. Stanford St., Springfield, Mo.  
Continental Mfg. Corp., 10411 W. Washington Blvd., Culver City, Calif.  
Defiance Spark Plug Corp., 323 20th St., Toledo, Ohio.  
Doering Mfg. Corp., A. L., 99 Seacrest Ave., Eltingville, S. I. 12, N. Y.  
Doran, Inc., James A., 26 W. Exchange Pl., Providence 3, R. I.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.  
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.  
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.

Leonard Spark Plug Co., 148 Summit St., Newark 4, N. J. (Shielded.)  
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.  
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.  
Stitt Ignition Co., 86 E. First Ave., Columbus 1, Ohio.  
Thomas Automotive Products Mfg. Co., Rockford, Ill.  
Trojan Products Co., N. Union St., Gallen, Ohio.  
Tungsten Spark Plug Mfg., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill.

## SPEEDOMETERS

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Jones-Motors Corp., 432 Fairfield Ave., Stamford, Conn. (For fire engines, trucks, racing cars, etc.)  
King-Seely Corp., K-S Bldg., 315 S. First St., Ann Arbor, Mich.  
Stewart-Warner Corp., Instrument Div., 1826 Diversey Parkway, Chicago, Ill. (Magnetic and electric.)  
Unitrak Motor Service, General Motors Bldg., Detroit 2, Mich.  
Waltham Watch Co., 221 Crescent St., Waltham 54, Mass.

## SPEEDOMETER CABLE

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.  
Champ-Kems, Inc., 6191 Maple Ave., St. Louis, Mo.  
Hygrade Products Div., Standard Motor Products, Inc., 25-35 35th St., Long Island City, N. Y.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Paragon Products Corp., 156 Astor St., Newark 5, N. J.  
Pars Mfg. Co., 311 W. 66 St., N. Y. 23, N. Y.  
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.  
Speedometer Service Co., 151 Forest St., Montclair, N. J.  
Stewart Mfg. Corp., F. W., 4311 Ravenswood Ave., Chicago, Ill.  
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill.  
Wyzenbeek & Staff, Inc., 824 W. Hubbard St., Chicago 22, Ill.

SPLASH GUARDS, See Guards, Splash  
SPOTLIGHTS, See Lamps, Fog, Head, Spot  
SPRAY BOOTH, See Booths, Spraying

## SPRAYERS, Molten Metal

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Metallizing Engineering Co., 1191 Prospect Ave., Westbury, Long Island, N. Y.  
Wall Colomony Co., 19345 John E. St., Detroit 3, Mich.

## SPRAYERS, Paint, Varnish, Lacquer, and Accessories

Bede Products Corp., Jackson St., Amherst, O.  
Binks Mfg. Co., 8114 Carroll Ave., Chicago 12, Ill.  
Black Mfg. Co., 70 Okner Parkway, Livingston, N. J.  
Brown Corp., W. R., 2701 N. Normandy Ave., Chicago 38, Ill.  
Campbell-Hausfeld Co., 211 Railroad Ave., Harrison, Ohio.  
Cleveland Container Co., Abrasive Div., 3571 W. 62nd St., Cleveland 2, Ohio. (Spray gun heads for paint cans.)  
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.  
DeVilbiss Co., 380 Phillips Ave., Toledo 1, O.  
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill. (Operated from engine.)  
Electric Sprayit Div., Thomas Industries, 14th & Illinois Sts., Sheboygan, Wis.  
G. M. C. Mfg., Inc., 12-08 43rd Ave., Long Island City, L. I., N. Y.  
Gray Co., 54 11th Ave. N.E., Minneapolis 13, Minn.



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The Lee Super DeLuxe Highway Nylon Truck Tire *costs less per mile*. That's because its premium features result in long original mileage and greater carcass strength for multiple recaps.

The extra-strong, extra-tough nylon cord provides maximum protection against impact bruises, blowouts and moisture damage. Nylon gives you a cooler-running tire, too, because there is less bulk. All cords are treated by Lee's exclusive double-dip Flexlok process which reduces heat, resists the effects of repeated flexing, and makes cord separation from the rubber bond practically impossible.

Every component of the tread design contributes to maximum mileage, better traction and cooler running. Only

the best grade of Smoked Sheet natural rubber is used. The flat contour and the deep tread put more rubber on the road to distribute the load and increase tire life. Angular center-tread grooves and the bars between the ribs help prevent little cuts from becoming big cracks.

Lee Super DeLuxe Highway Nylons—tubed or tubeless—are an outstanding tire buy! Write direct, or look for "Lee of Conshohocken" in the Yellow Pages of your Telephone Directory.

\* \* \*

The complete Lee line, shown below, includes a tire which will lower *your* operating costs by giving longer life, more recaps. Let us prove it to you.





## sprayers to starting aid

CCJ's Product Directory

### SPRAYERS—continued

Ideo Products Co., 1 W. 125th St., New York 27, N. Y. (For white wall tires.)  
Kelite Corp., 1250 N. Main St., Los Angeles, Calif.  
M & E Mfg. Co., 2571 Winthrop Ave., Indianapolis 5, Ind.  
Macloed Co., Box 452, Sharonville, Ohio.  
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill.  
Meiser & Co., G. H., 327 E. Marquette Rd., Chicago 37, Ill.  
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.  
Pioneer Air Compressor Co., 120 Chambers St., New York 7, N. Y.  
Plumber Spray Equipment Co., 700 Fillmore St., Napoleon, Ohio.  
Portable Elec. Tools, Inc., 320 W. 83 St., Chicago 20, Ill.  
Saylor-Beall Mfg. Co., St. Johns, Mich.  
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Calif.  
Spray Engineering Co., 114 Central St., Somerville 45, Mass.  
Wilson, Inc., K. R., Arcade, N. Y.

### SPRAYERS, Undercoating

American Brake Shoe Co., Kellogg Div., Rochester 9, N. Y.  
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.  
Black Mfg. Co., 201 2nd St., Harrison, N. J.  
DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio.  
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis.  
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn.  
Hudson Mfg. Co., Railroad & Institute Sts., Conyers, Ga.  
Lincoln Engrg. Co., 5701 National Bridge Ave., St. Louis 20, Mo.  
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif. (Air operated.)  
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.  
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y.

**SPREADERS, ROAD (Gravel, Salt, Sand).**  
See Sanders, Road

### SPRINGS, Air

General Tire & Rubber Co., Air Spring Div., Englewood & Holmes Ave., Akron 9, Ohio.  
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.

### SPRINGS, Helper

Automotive Aids Corp., 3526 W. Fort St., Detroit 16, Mich.  
Bee-Line Co., P. O. Box 569, Davenport, Iowa.  
Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.  
Maremont Automotive Products, Inc., S. Ashland Ave. at 16th St., Chicago 8, Ill.  
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
Prior Products Co., 4823 Racell St., Dallas, Texas.  
Service Spring Co., 701-735 St. Paul St., Indianapolis 6, Ind.  
St. Louis Spring Co., Div. Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
Trainer National Spring Co., New Castle, Ind.  
Tuthill Spring Co., 760 W. Polk St., Chicago 7, Ill.  
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

### SPRINGS, Leaf

Benz Spring Co., 321 N. W. Ninth Ave., Portland 9, Ore.  
Betts Spring Co., 868 Folsom St., San Francisco, Calif.  
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. (For trucks, trailers and buses.)  
Champ Spring Co., 2107 Chouteau Ave., St. Louis, Mo.  
Cincinnati Auto Spring Co., 311 Central Ave., Cincinnati 2, Ohio. (For trucks and trailers.)  
Detroit Steel Products Co., Div. of Fenestra Inc., 1600 Trombley Ave., Detroit 11, Mich.  
Eaton Mfg. Co., Spring Div., 9771 French Road, Detroit, Mich.

Iron City Spring Co., 2920 Smallman St., Pittsburgh, Pa.  
Laher Spring & Tire Corp., 2615 Magnolia St., Oakland 7, Calif.  
Liggett Spring & Axle Co., Monongahela, Pa. (Truck and trailer.)  
Maremont Automotive Products, Inc., S. Ashland at 16th St., Chicago, Ill. (Truck, bus and trailer.)  
Mather Spring Co., 939 N. Cove Blvd., Toledo 10, Ohio.  
Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.  
Republic Engr. & Mfg. Co., 6565 Wells Ave., St. Louis 14, Mo.  
Rheem Automotive Co., 4951 Alcoa Ave., Los Angeles 58, Calif. (Suspension.)  
Rockwell Spring & Axle Co., 843 Fourth Ave., Coraopolis, Pa.  
Service Spring Co., 701-735 St. Paul St., Indianapolis 6, Ind.  
Spring Perch Co., Hamburg Turnpike (P. O. Box 6), Lackawanna 18, N. Y.  
Standard Steel Spring Co., Coraopolis, Pa.  
Trainer National Spring Co., Box 391, New Castle, Ind.  
Triangle Auto Spring Corp., Maloney Rd. & B. & O. R. R., Dubois, Pa.  
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.  
Vail Spring Works, Inc., P. O. Box 4008, Broad Creek Sta., Norfolk, Va.  
Vulcan Spring Co., 760 W. Polk St., Chicago, Ill.

### STANDS, Adjustable

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.  
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.  
Bay Mfg. Div., Life Time Products Corp., Box 537-C, Youngstown 1, Ohio.  
Cochin Mfg. Co., 1440 E. Grand Ave., South, San Francisco, Calif.  
Edgewater Automotive Div., Auto Specialties Mfg. Co., St. Joseph, Mich.  
Evans Reamer & Machine Co., New Lexington, Ohio.  
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
Manley Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.  
R V Jack Corp., P. O. Box 205, Arcade, N. Y.  
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. 2nd St., Dayton 1, Ohio.  
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo 12, Ohio. (Folding.)  
Unit Mfg. Co., 1229 Harmon Pl., Minneapolis 3, Minn.  
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Folding.)  
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Horses.)  
Wilson, Inc., K. R., Arcade, N. Y.

**STANDS, AXLE REPAIR, REAR, See Stands, Engine Transmission Repair**

### STANDS, Body Parts Repair

Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.

### STANDS, Electric Test

(For testing starting and lighting equipment; see also Analyzers, Trouble)  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13 F., Mich. Generator.  
Crumbliss Mfg. Co., 3830 N. Podlin Dr., Franklin Park, Ill. (Regulator.)  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Heyer Industries Inc., 471 Cortlandt St., Belleville 9, N. J.  
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio. (Generator and regulator.)  
Mercury Electric Co., 719 Wyandotte St., Kansas City 6, Mo. (Generator.)  
Nankervis Co., George L., 15300 Fullerton St., Detroit 27, Mich.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Regulator.)

Shurhit Products Inc., 845 S. Market St., Waukegan, Ill.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Weidenhoff Corp., Algona, Iowa.

### STANDS, Engine & Transmission Repair

Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Cam Tool Co., 1038 Larkin St., San Francisco, Calif.  
Cedar Rapids Engrg. Co., 902 N. 17th St., Cedar Rapids, Iowa.  
Clayborne Mfg. Co., 429 N. Main St., Monticello, Ind.  
Clayton Mfg. Co., 401 N. Temple City Blvd., El Monte, Calif.  
Cleveland Pneumatic Tool Co., Automotive Div., 3769 E. 77th St., Cleveland 5, Ohio.  
Curtiss & Smith Mfg. Corp., 125 E. 4th St., Pottstown, Pa.  
Evans Reamer & Machine Co., New Lexington, Ohio.  
Houdaille Industries Inc., Mangel Div., 315 Babcock St., Buffalo 10, N. Y.  
Globe Hoist Co., E. Mermaid Lane at Queen St., Philadelphia 18, Pa.  
K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.  
Lemco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
Manley Div. American Chain & Cable Co., 1100 E. Princess St., York, Pa.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
Montague Equipment Co., Box 222, Urbana, Ohio.  
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.  
Wilson, Inc., K. R., Arcade, N. Y.  
Worthington Pump & Machinery Corp., Harrison, N. J.

### STANDS, Portable Tool and Parts

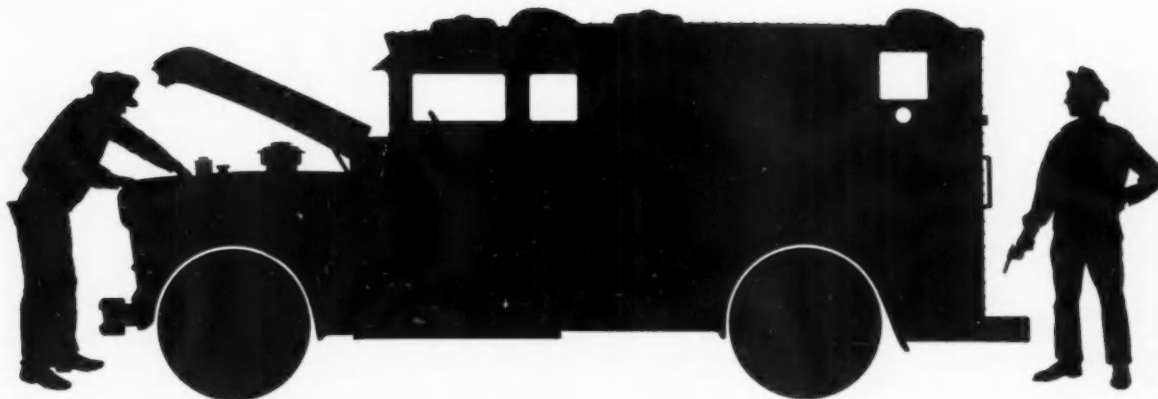
Albertson & Co., 2100 Lowell Ave., Sioux City 3, Iowa.  
All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill.  
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Barrett-Graves Co., 630 Dundee Rd., Northbrook, Ill.  
Bay Products, Inc., 3001 N. 16th St., Phila. 32, Pa.  
Bernard-Franklin Co., Hedley & Bath Sts., Phila. 97, Pa.  
Bernard Gloekler East Co., Robinson & Wall Sts., North East, Pa.  
Colson Corp., Elvira, Ohio.  
Cutler Metal Products Co., 1029 Line St., Camden, N. J.  
Equipto Div. Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.  
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio.  
Gross Mfg. Co., 1711 California St., Monrovia, Calif.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Herman Co., Karl A., 412 Fuller Ave. N.E., Grand Rapids, Mich.  
Huot Mfg. Co., 550 N. Wheeler Ave., St. Paul, Minn.  
Kennedy Mfg. Co., N. Harrison St., Van Wert, Ohio.  
Lincoln Engrg. Co., 4010 Goodfellow Blvd., St. Louis 20, Mo.  
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.  
Nutting Truck & Caster Co., 1201 W. Division St., Faribault, Minn.  
Overbeke-Kain Co., 20905 Aurora Ave., Bedford, Ohio.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
R & L Mfg. Co., 1945 N. 12th St., Toledo 1, Ohio. (Sole distributors, Lisle Corp., 809 E. Main St., Clarinda, Iowa.)  
Sheet Metal Specialty Div. of Follansbee Steel Corp., State St., Follansbee, W. Va.  
Shure Mfg. Co., 1601 S. Hanley Rd., St. Louis 17, Mo.  
Standard Pressed Steel Co., Jenkintown, Pa.  
Sturdt-Bilt Steel Products, Inc., 2501 Peterson Ave., Chicago 45, Ill.  
Wilson, Inc., K. R., Arcade, N. Y.

### STARTING AID

Schauer Mfg. Corp., 4533 Alpine St., Cincinnati 36, Ohio.



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**A delayed delivery due to a dead battery isn't big news—but is a big expense. So don't take a chance. Use a Delco Extra-Duty Battery that lives up to its warranty.**

Considering all the costs of delay—the idle truck, lost time and manpower—a dead battery can be one of your worst profit robbers. That's why it pays to rely on the Delco Extra-Duty battery. Developed and backed by General Motors and Delco, it gives what you expect and then some.

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Motors Proving Ground. Then, and only then, was a long-life warranty written which is good in the United States and Canada. Really tough! That's what tests prove of the Delco Extra-Duty. And in actual fleet use, it offers the lowest possible cost per mile of operation.

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# steel or iron to switches

CCJ's Product Directory

**STARTING MOTOR DRIVE PARTS.** See Parts, Starting Motor Drive  
**STARTING MOTORS.** See Motors, Starting  
**STEAM CLEANERS.** See Cleaners, Engine, Chassis and Fender

**STEEL or IRON, Angle, Channel and Tee**  
Atlantic Steel Co., 16th & Mecaline Sts., Atlanta 1, Ga. ("Dixisteel.") (Steel.)  
Hynes Steel Products Co., 3760 Oakwood Ave., Youngstown, Ohio. (Angle steel.)  
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill.  
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa. (Steel.)  
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.  
United States Steel Corp., 525 Wm. Penn Pl., Pittsburgh 30, Pa.

## STEEL, Sheet

Alan Wood Steel Co., Conshohocken, Pa.  
American Nickeloid Co., Peru, Ill. (Nickel, chrome, copper and brass plated.)  
Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Chromium, nickel, copper or brass plated.)  
Armco Steel Corp., 703 Curtis St., Middletown, Ohio. (Hot and cold rolled; also aluminized.)  
Bethlehem Steel Co., Bethlehem, Pa. "Beth Cu Loy."  
Caine Steel Co., 1820 N. Central Ave., Chicago 39, Ill.  
Coatesville Plate Washer Co., 1644 Widener Bldg., Philadelphia 7, Pa.  
Crucible Steel Co. of America, 535 Smithfield St., Pittsburgh, Pa.  
Detroit Steel Corp., P.O. Box 4308, Detroit 9, Mich. (Hot and cold rolled.)  
Eastern Stainless Steel Corp., P. O. Box 1976, Baltimore, Md. (Stainless.)  
Great Lakes Steel Corp., Tecumseh Rd., Ecorse, Detroit 29, Mich. (Low carbon high tensile; cold and hot rolled.)  
Hynes Steel Products Co., 3760 Oakwood Ave., Youngstown, Ohio.  
Ingersoll Steel, Div. Borg-Warner Corp., P. O. Box 273, New Castle, Ind. (Carbon, alloy and stainless.)  
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. (Hot and cold rolled; enameled and galvanized.)  
Jones & Laughlin Steel Corp., 3 Gateway Center, Pittsburgh 30, Pa.  
Kaiser Steel Corp., 1924 Broadway, Oakland 12, Calif. (Hot and cold rolled.)  
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.  
Newport Steel Corp., 9th & Lowell Sts., Newport, Ky.  
Pittsburgh Steel Co., 1600 Grant Bldg., Pittsburgh 30, Pa.  
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio. (Stainless.)  
Sharon Steel Corp., Sharon, Pa.  
Superior Sheet Steel Co., Canton, Ohio.  
Superior Steel Corp., Carnegie, Pa. (Copper, monel or nickel coated.)  
Tennessee Coal & Iron Div. United States Steel Co., P. O. Box 599, Fairfield, Ala.  
United States Steel Corp., 525 Wm. Penn Pl., Pittsburgh 30, Pa.  
Universal-Cyclops Steel Corp., Station St., Bridgeville, Pa.  
Washington Steel Corp., Griffith & Woodland Aves., Washington, Pa. (Stainless.)  
Weirton Steel Co., Div. of National Steel Corp., Weirton, W. Va. (Hot and cold rolled.)  
Wheeling Steel Corp., Wheeling Steel Bldg., Wheeling, W. Va.  
Youngstown Sheet & Tube Co., Stambaugh Bldg., Youngstown 1, Ohio. (Hot and cold rolled.)

**STEERING GEARS.** See Gears, Steering

## STEERING, Power

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.  
Air-O-Matic Power Steer Corp., 1478 Davenport Ave., Cleveland, Ohio. (Air for trucks and buses.)  
Bendix Products Div. Bendix Aviation Corp., South Bend 20, Ind. (Hydraulic.)  
Garrison Mfg. Co., 1500 S. Santa Fe Ave., Los Angeles 21, Calif. (Hydraulic, for trucks and tractors.)  
Gemmer Mfg. Co., Div. of Ross Gear & Tool Co., 6400 Mt. Elliott Ave., Detroit 11, Mich. (Hydraulic.)

Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich.  
Ross Gear & Tool Co., Inc., 800 Heath St., Lafayette, Ind. (Hydraulic.)  
Saginaw Steering Gear Div. General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich. (Hydraulic.)  
Vickers, Inc., 1400 Oakman Blvd., Detroit 32, Mich. (Hydraulic.)

## STENCILS, For Lettering

Dicks Co., C. O., Detroit, Mich. (Lettering for trucks; cut paper masks for spraying.)

## STEPS, Truck Body

Bustin Steel Products, Inc., Dover, N. J.  
Medley Mfg. Co., 9300 E. Firestone Blvd., Downey, Calif. (Side and rear.)  
Mesco Products, Crete, Neb. (Folding.)  
Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill.  
Miller Mfg. Co., 5919 Fireman Ave., Detroit 4, Mich. (For mechanic's use.)  
Power Brake Parts Mfg. Co., 3435 S. Racine Ave., Chicago 8, Ill. (Maintenance stand.)  
Turk Corp., C. K., 1122 Meshawaka Ave., South Bend 15, Ind. (Folding.)

## STRAIGHTENERS, Axle

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bee-Line Co., Box 569, Davenport, Iowa.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill.  
Manbee Equip. Div., Bear Mfg. Co., P.O. Box 607, Rock Island, Ill.

## STRAIGHTENERS, Frame

(See Also Presses, Straightening)

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bee-Line Co., Box 569, Davenport, Iowa.  
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.  
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Hydraulic, combination body and frame.)

**STRAIGHTENERS, WHEEL.** See Presses, Straightening (Wheel)  
**STRIPPERS, PAINT.** See Removers, Paint, Enamel and Varnish

## SUSPENSIONS, Air (Truck, Trailer and Bus)

Clark Equipment Co., Buchanan, Mich.  
Neway Equipment Co., 1183 E. Laketon St., Muskegon, Mich. (Truck and bus.)  
Spencer-Safford Loadcraft Inc., Augusta, Kan.  
Trucktor Corp., P. O. Box 120, Westfield, N. J.  
Youngstown Steel Car Corp., Hunter St., Niles, Ohio.

## SUSPENSION UNITS, AXLE (FOR TRAILERS), See Axle Suspension Units, for Trailers

## SWEEEPERS, Road

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
Austin-Western Co., Aurora, Ill.  
Columbia Engineering Service Co., 173 14th St., San Francisco, Cal. (Magnetic Type.)  
Elgin Sweeper Co., Elgin, Ill.  
Esies Manufacturing Co., 42 Magnet Drive, Erie, Pa.  
Frank Sno-Flows, Inc., Clayton, Thousand Isle, N. Y.  
Hough Co., Frank G., Libertyville, Ill.  
Little Giant Products, Inc., 1630-40 N. Adams St., Peoria, Ill.  
Wilshire Power Sweeper Co., 528 W. Chevy Chase, Glendale 4, Calif. (Road & floor.)

## SWITCHES, Direction Indicating Signal

Arrow Safety Device Co., Mt. Holly, N. J.  
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago, Ill.  
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Chefford Master Mfg. Co., Fairfield, Ill.

Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Delco-Remy Div., General Motors Corp., Anderson, Ind.  
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Marion Truck Equipment Co., 5275 S. Archer Ave., Chicago 32, Ill.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)  
Pollak Corp., Joseph, 76 Freeport St., Boston 22, Mass.  
Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (For school buses.)  
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.  
Signal-Stat Corp., 523-39 Kent Ave., Brooklyn 11, N. Y. (Combination directional signal switch and emergency flashing switch for disability parking.)  
Spartan Automotive Div. of Sparks-Withington Co., Jackson, Mich.  
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts., Philadelphia 36, Pa.  
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.  
Yankee Metal Products Corp., 25 Grant St., Norwalk, Conn. (Self-cancelling.)

## SWITCHES, EMERGENCY, TRAILER

Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.

## SWITCHES, Floor or Foot

Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind. (Foot dimming.)  
Echlin Mfg. Co., U. S. Route 1, Branford, Conn. (Dimming.)  
Electric Auto Lite Co., Toledo 1, Ohio.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Headlight dimming.)  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
General Automotive Specialty Co., 10-40 46th Ave., Long Island City 1, N. Y. (Headlight dimming.)  
Guaranteed Parts Co., Seneca Falls, N. Y. (Headlight dimming.)  
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y. (Headlight dimming.)  
Illinois Accessories Co., 317 E. Ontario St., Chicago 11, Ill. (Headlight dimming foot.)  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kem Mfg. Co., 20-21 Dagaraw Rd., Fair Lawn, N. J.  
M. D. Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. (Headlight dimming.)  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.  
New York Coil Cr., 42 Second Ave., Phoenixville, Pa. (Headlight dimming, foot operated.)  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 20, Ill. (Headlight dimming.)  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Headlight dimmer.)  
Pollak Corp., Joseph, 76 Freeport St., Boston 22, Mass.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)  
Sorenson Mfg. Co., 57th St., Woodside 77, N. Y.  
Standard Motor Products, Inc., 87-18 Northern Blvd., Long Island City, L. I., N. Y. (Headlight dimming.)  
Tasco Products, Inc., 199 Vermont St., Brooklyn 7, N. Y.  
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.



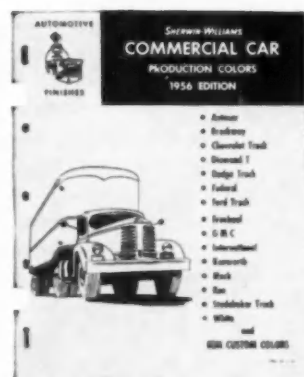
# 250 SHORT CUTS

*to faster fleet refinishing...*

Here's handy help in ordering finishes to match factory production colors on all makes of commercial cars!

This 32-page catalog of Sherwin-Williams Commercial Car Production colors contains color swatches and catalog listings of all popular commercial car colors available in KEM Enamel factory packaged colors or as custom-mixed quality enamel or lacquer colors. Cross-references simplify ordering — actual color samples aid selection of new color schemes from a wide choice of conveniently available standard colors. This comprehensive manual also contains full data on recommended air-dry and bake systems, metal preparation, etc.

If your operations involve refinishing or color styling of commercial fleets, a copy of this up-to-date Commercial Color Catalog O-149 will be supplied for your use without obligation. Please write on your company letterhead to The Sherwin-Williams Co., Automotive Division, Cleveland 1, Ohio.



## SHERWIN-WILLIAMS

AUTOMOTIVE FINISHES

# switches

CCJ's Product Directory

## SWITCHES, Heater

Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.  
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Culver-Stearns Mfg. Co., 181 Greenwood St., Worcester 7, Mass.  
Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.  
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.  
K-D Lamp Div., 1910 Elm St., Cincinnati 10, Ohio.  
Kem Mfg. Co., 20-21 Sagaraw Rd., Fair Lawn, N. J.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)  
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, N. Y.  
Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.  
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.

## SWITCHES, Ignition

Andrew Parts Mfg. Co., 32-70 31st St., Long Island City 6, N. Y.  
Bendix-Scintilla-See Scintilla Magneto Div. of Bendix Aviation Corp.  
Briggs & Stratton Corp., 2711 N. 18th St., Milwaukee 1, Wis.  
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.  
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.  
Murphy Mfr. Inc., Frank W., 5428 E. Admiral Pl., Tulsa, Okla.  
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.  
Scintilla Magneto Div. Bendix Aviation, Sherman Ave., Sidney, N. Y.  
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.  
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill. (Automatic.)  
Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.  
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts., Holmesburg, Philadelphia 36, Pa.  
Valley Forge Products, Inc., 370 19th St., Brooklyn 15, N. Y.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

## SWITCHES, Ignition, Cut-Off

Almquist Engrg. Co., Milford, Pa.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.

Durakool, Inc., 1010 N. Main St., Elkhart, Ind.  
Reynolds Electric Co., 3000 River Rd., River Grove, Ill.  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
Synchro-Start Products, Inc., 8151 N. Ridgeway Ave., Skokie, Ill.

## SWITCHES, Light

Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.  
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Connecticut Telephone & Electric Corp., 85 Britannia St., Meriden, Conn.  
Controls Corp. of America, Soreng Div., 9555 Soreng Ave., Schiller Park, Ill.  
Culver-Stearns Mfg. Co., 181 Greenwood St., Worcester 7, Mass.  
Cutler-Hammer, Inc., 362 N. 12th St., Milwaukee 1, Wis.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind. (For dome lights.)  
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.  
Fasco Industries Inc., 400 Davis St., Rochester 2, N. Y.  
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y. (Dash.)  
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Ideal Corp., 435 Liberty Ave., Brooklyn 7, N. Y.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products Inc., 1060 Broad St., Newark 2, N. J.)  
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.  
Regal Motor Products, Inc., 6325 Grand River Ave., Detroit 8, Mich.  
Rhodes Inc., M. H., 30 Bartholomew Ave., Hartford 6, Conn.  
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.  
Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.  
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts., Holmesburg, Philadelphia 36, Pa.  
Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

## SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis.  
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.  
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill. (Remote control.)  
Carter Parts Co., 213 Institute Place, Chicago 10, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Delco-Remy Div., General Motors Corp., 2401 Columbus Ave., Anderson, Ind.  
Echlin Mfg. Co., U. S. Route 1, Branford, Conn.  
Electra Mfg. Co., 800 N. 21st St., Independence, Kans.  
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite" (Solenoid.)  
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. (Solenoid.)

Freedco Products, Inc., 36-08 33rd St., Long Island City 6, N. Y.  
General Automotive Specialty Co., 10-40 45th Ave., Long Island City 1, N. Y.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
Hanson Co., Harvey E., Lake Blvd. & Commercial St., Paw Paw, Mich.  
Illinois Accessories Co., 817 E. Ontario St., Chicago 11, Ill.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Leece-Neville Co., 1374 E. 51st St., Cleveland 3, Ohio.  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
Paragon Products Corp., 140 Astor St., Newark 5, N. J. (Sole distributors Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)  
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Practical Devices, Inc., 103 Lafayette St., New York 13, N. Y. (Remote control.)  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.  
Shurhit Products, Inc., 845 S. Market St., Waukegan, Ill.  
Sorensen Mfg. Co., 32-31 57th St., Woodside 77, N. Y.  
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.  
Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.  
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts., Holmesburg, Philadelphia 36, Pa.  
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.

## SWITCHES, Stop Light

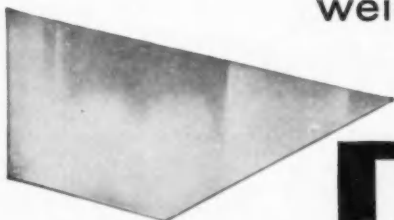
American Motor Products Co., Fond du Lac, Wis.  
Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.  
Berg Mfg. & Sales Co., Inc., 1712 South Michigan Blvd., Chicago 16, Ill.  
Carter Parts Co., 3401 W. Madison St., Skokie, Ill.  
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.  
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.  
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.  
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.  
Guaranteed Parts Co., Seneca Falls, N. Y.  
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.  
Kelley-Hayes Wheel Co., 2600 Military Ave., Detroit 32, Mich. (Trailer.)  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Master Parts Div. Airtex Products Inc., Fairfield, Ill.  
Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.  
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.  
Murray Corp., E. Joppa Rd., Towson 4, Md.  
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.  
Perfect Parts Inc., 43 W. 23rd St., New York 10, N. Y.





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provides  
equal strength  
with lighter  
weight



Jalten permits high design loads with reduction in section. Usual reduction is two gages with weight saving as much as 25%.

High strength of Jalten is the result of balanced chemical composition which is carefully controlled during production. Jalten's strength is retained through fabrication and welding without further heat treatment.

Jalten is available in the forms you require (plates, hot rolled sheets, hot rolled bars, small shapes and structurals). Jalten can be purchased in three grades to meet specific requirements for high strength, formability, impact, resistance to corrosion.

Your local distributor can supply you with information on Jalten, or you can write direct to the Jones & Laughlin Steel Corporation, Dept. 432, 3 Gateway Center, Pittsburgh 30, Pennsylvania.

**Jones & Laughlin**  
... a great name in steel

## tachometers to take-offs

CCJ's Product Directory

### SWITCHES—continued

Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.  
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.  
Sorensen Mfg. Co., P., 32-31 57th St., Woodside 77, N. Y.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, Long Island, N. Y.

Tasco Products Inc., 199 Vermont St., Brooklyn 7, N. Y.  
Valley Forge Products Inc., 370 19th St., Brooklyn 15, N. Y.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.  
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

### SYNCHRONIZERS, See Instruments, Distributor Testing

### TACHOMETERS, Engine Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Electric.)  
Auto-Test Inc., 600 S. Michigan Ave., Chicago 5, Ill.  
Electro Products Co., 445 E. 189th St., New York 58, N. Y.  
Kal-Equip Co., Box 567, Kalamazoo, Mich.  
King Electric Equipment Co., 9115 Inman Ave., Cleveland 5, Ohio.  
Motoraide Corp., 2400 Emerald St., Philadelphia 25, Pa. (Electric.)  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Electric.)  
Weidenhoff Corp., Algona, Iowa.  
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif.

### TACHOMETERS, Speed

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Electric.)  
Amthor Testing Instrument Co., 45 Van Sinderen Ave., Brooklyn 7, N. Y.  
Barbour-Stockwell Co., 205 Broadway, Cambridge 35, Mass.  
Biddle Co., James G., 1316 Arch St., Philadelphia 7, Pa.  
Bristol Co., Waterbury 91, Conn.  
Electro-Mechano Co., 261 E. Erie St., Milwaukee 2, Wis.  
Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.  
Herbrand Div. Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.  
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn.  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.  
Metron Instrument Co., 432 Lincoln St., Denver 9, Colo. (Electric.)  
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.  
Stewart-Warner Corp., Instrument Div. 1826 Diversey Parkway, Chicago, Ill. (Electric and mechanical.)  
Sticht Co., Herman H., 27 Park Place, New York, N. Y.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.  
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.  
Waltham Watch Co., 221 Crescent St., Waltham 54, Mass.  
Westberg Mfg. Co., 144 S. Coombs St., Napa, Calif.  
Zernickow Co., O., 15 Park Row, New York 38, N. Y.

### TACHOGRAPHS, See Recorders, Vehicle Movement

### TAILGATE LOADERS, See Loaders, Truck (Elevating Tailgate)

### TAIL PIPES, See Pipes, Tail and Exhaust

### TAKE-OFFS, Power

Adams Engineering Co., 31711 Solon Rd., Solon, Ohio.  
Automotive Gear Div. Eaton Mfg. Co., S. 8th & O Sts., Richmond, Ind.  
Cemco Industries, Inc., Galion, Ohio. (Split shaft.)  
Chelsea Products, Inc., 21 Buchanan St., Chelsea, Mich.  
Cotta Transmission Co., 2340 11th St., Rockford, Ill.  
Couse Mfg. Inc., 300 Pacific St., Newark 4, N. J.  
Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
Detroit Harvester Co., Paris Products Div., Paris, Ky.  
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif.  
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. (With hoist, winch and crane.)  
Heil Co., Dept. 62115, 3062 W. Montana St., Milwaukee 1, Wis.  
Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.  
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.

# R.P.M. control

# means Cost Control!

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# HOOF GOVERNORS

## HOOF PRODUCTS CO.

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NO-SLIP,  
HEAVY DUTY  
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STAINLESS STEEL  
SPRING

BERYLLIUM COPPER  
CONDUCTOR STRIP

PRE-SET SPRING  
TENSION

RUGGED,  
HEAVY DUTY  
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# ECHLIN



# Ignition

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ECHLIN IGNITION OF CANADA LTD. • 56 CONNIE ST. • TORONTO 15, CANADA

# tanks

CCJ's Product Directory

## TAKE-OFFS—continued

Lempeo Products Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade Lempeo Automotive Inc., 2953 E. 65th St., Cleveland 27, Ohio.)  
Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
Mobile Power Co., 400 Leland Pl., Lansing, Mich.  
Muncie Parts Mfg. Co., 2601 S. Jefferson St., Muncie, Ind.  
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill.  
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.

Stow Mfg. Co., 38 Shear St., Binghamton, N. Y.  
Tulsa Winch, Div. of Vickers, Inc., 815 E. First St., Tulsa 20, Okla.  
Twin Disc Clutch Co., 1338 Racine St., Racine, Wis.  
Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis.  
Watson Co., H. S., 1316 67th St., Emeryville, Calif.  
Western Gear Works, 2600 E. Imperial Highway, Lynwood, Calif.

TALC, TIRE, See Lubricants, Tire  
TANK BODIES, See Tanks, Trailer and Truck Body

## TANKS, Fuel Supply

American Safety Tank Co., 3937 Main St., Kansas City 11, Mo.  
Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.  
Cutler Metal Products Co., 1025 Line St., Camden, N. J.  
Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala.  
Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.  
M D Parts Mfg. Co., 4395 E. Olympic Blvd., Los Angeles, Calif. (For jeeps.)  
Master Tank & Welding, 1612 Singleton Blvd., Dallas 2, Tex.  
Michigan Fleet Equipment Co., 2350 Chicago Drive S. W., Grand Rapids, Mich.  
Mitchell Metal Products Inc., 6501 Cedar Ave., Cleveland 3, Ohio.  
Prior Products, Inc., 4828 Racell St., Dallas, Tex.  
Snyder Tank Corp., 3773 Lake Shore Blvd. (P. O. Box 14), Buffalo 5, N. Y.  
Stolper Steel Products Corp., 800 Pilgrim Rd., Menominee Falls, Wis.  
Western Metal Specialty Div. Western Industries Inc., 1213 N. 62nd St., Milwaukee 13, Wis.

TANKS, METAL PARTS WASHING, See Washers (Metal Parts)

## TANKS, Oil, Portable

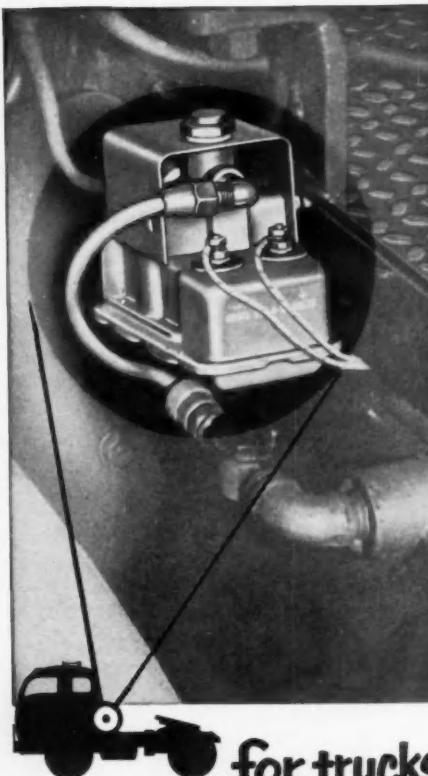
(Tanks and pumps on wheels)  
Bowler, Inc., S. F., 1302 E. Creighton Ave., Ft. Wayne 2, Ind.  
Erie Meter Systems, Inc., 1602 Wagner Ave., Erie, Pa.  
Gilbert & Barker Mfg. Co., Springfield, Mass.  
Grigg Specialty Tools, 8103 Marbisa Ave., Huntington Park, Calif.

## TANKS, Tire and Tube Testing

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.  
Balloon Tire Mould Co., 627 Ceres Ave., Los Angeles 13, Calif.  
Bishman Mfg. Co., Osseo, Minn.  
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Ia. (Sole distributors: Jack P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)  
Independent Iron Works 8th & Pine Sts., Oakland 20, Calif.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
Lawson Co., F. H., Evans & Whately Sts., Cincinnati, Ohio.

## TANKS, Trailer and Truck Body

American Body & Equipment Co., Ft. Worth-Dallas Pike, Dallas, Tex. (Milk truck.)  
American Steel Works, 1211 W. 27th St., Kansas City, Mo.  
Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo.  
Auto Truck Steel Body Co., 3025 Carroll Ave., Chicago 12, Ill.  
Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland 3, Ore.  
Boston Steel & Mfg. Co., 112 Bryant St., Malden 48, Mass.  
Butler Mfg. Co., 7400 E. 13th St., Kansas City 28, Mo.  
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Fuel truck to order.)  
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.  
Cutler Metal Products Co., 1029 Line St., Camden, N. J.  
Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.  
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill.  
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.  
Gary Steel Products Corp., P. O. Box 449, Lynchburg, Va. (Trailer to order.)  
Gate City Steel Inc., 4000 Warm Springs Ave., Boise, Idaho.  
General Body & Hoist Co., Paris & Garvey Sts., Everett 49, Mass.  
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.  
Hewes Body Co., 87 St. John St., Portland 4, Me.  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.



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# electric fuel pump

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**Stops Vapor Lock**  
**Gives Instant Starts**  
**In Any Weather!**

**for trucks, busses, cars!**



See your dealer for complete details, or write:



- ★ No bellows, pistons or rocker arms to wear!
- ★ Operates independently of engine to assure positive flow of gas—always!
- ★ Heavy-duty construction. Weatherized finish, in bright green baked enamel!
- ★ Models with single or dual pumps!

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**Leece-Neville** ALTERNATOR SYSTEMS

**THE BEST GENERATOR EQUIPMENT YOU CAN BUY!**



Leece-Neville alternators supply ample electric current to permit full use of all lights, accessories and radios . . . at all vehicle speeds. Unlike conventional generators, L-N alternators start charging as soon as the engine is started and deliver maximum output at low engine speed.

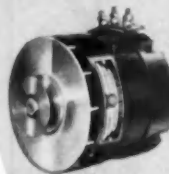
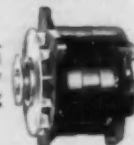
Whether your operation is stop-start, over-the-road, or a combination involving heavy city traffic, you'll find an economical L-N generating system exactly suited to your requirements.

You can eliminate electrical failures on the road, cut maintenance costs and boost operating efficiency with LEECE-NEVILLE ALTERNATORS . . . available as factory-installed original equipment or as replacements through L-N field service distributors, located in all principal cities.

AA-5706

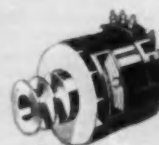
### 3 L-N ALTERNATOR SYSTEMS . . .

**L-N STANDARD** Alternator, with companion regulator and rectifier . . . an extremely popular generating system because of its universal adaptability and low price. L-N STANDARD Alternators are widely used on passenger cars, light and medium duty trucks, school buses, taxicabs and police cars. Both 6 and 12 volt systems are offered.\*



**L-N HEAVY-DUTY** Alternator, with companion regulator and rectifier . . . supplies 95 amperes at 6 volts; 50, 60 or 100 amperes at 12 volts.\* Added advantages include unusually high output at idle . . . also can provide up to 1200 watts of mobile 110 volt power. Used on passenger cars, trucks, buses and emergency vehicles of all types.

**L-N EXTRA HEAVY-DUTY** Alternator, with companion regulator and rectifier . . . provides 60 to 95 amperes at 6 volts; 60, 100 or 125 amperes at 12 volts.\* Especially designed for multiple-belt drives and severest operating conditions, either over-the-road or off-highway. Bonus features include 1200 watt mobile 110 volt power supply. Generally used on heavy trucks, buses, large emergency and off-highway units.



\* L-N 24 and 32 volt alternator systems also available.

**YOU CAN  
RELY ON**

**Leece-  
Neville**

**THE LEECE-NEVILLE COMPANY • CLEVELAND 3, OHIO**

*Manufacturers of Automotive Electrical Equipment since 1909*

TRUCK • BUS • DIESEL • INDUSTRIAL • PASSENGER • RAILROAD • MARINE • OFF-HIGHWAY



ALTERNATOR SYSTEMS



D C GENERATORS



REGULATORS



CRANKING MOTORS



SWITCHES

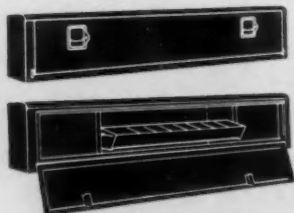


SMALL MOTORS

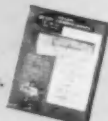


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**YOU CAN DOUBLE THE UTILITY**  
**OF YOUR PICK-UP TRUCK**

Holan utility compartments save tool-searching time, protect tools, discourage pilfering, increase carrying capacity . . . and they are easily installed in a few hours. Holan utility compartments are available in 3 sizes—72", 84" and 105" long. All are made of high-tensile steel and have Holan flush-type handles.



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Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

## tanks and systems

CCJ's Product Directory

### TANKS—continued

Industrial Steel Tank & Body Works Inc.,  
2533 Fourth St., Berkeley 10, Calif.  
Joplin Body & Trailer, Inc., 720 E. 5th St.,  
Joplin, Mo.  
Kaustine Furnace & Tank Corp., Perry, N. Y.  
Kennedy Tank & Mfg. Co., 1201 Beecher St.,  
Indianapolis 7, Ind.  
Lang Co., 267 W. 1st South St., Salt Lake  
City 10, Utah (Truck.)  
Master Tank & Welding, 1612 Singleton Blvd.,  
Dallas 2, Tex.  
Morrison Bros. Co., 2401 Elm St., Dubuque,  
Iowa.  
Niles Steel Tank Co., Niles, Mich.  
Pacific Coast Engr. Co., Oak & Clement Sts.,  
Alameda, Calif. (To Order.)  
Pennsylvania Furnace & Iron Co., 316 Pine  
St., Warren, Pa.  
Press' Sons, Inc., Jacob, 501 W. 33rd St., Chi-  
cago 16, Ill.  
Progress Mfg. Co., Oil Equipment Div., Arthur,  
Ill.  
Providence Body Co., 750 Wellington Ave.,  
Cranston, R. I.  
Quaker City Iron Works, Aramingo & On-  
tario Sts., Philadelphia 34, Pa.  
Rock Hill Body Co., W. Main St., Rock Hill,  
S. C.  
Sharpsville Steel Fabricators, Inc., Sharps-  
ville, Pa.  
Stainless Steel Products Co., 1000 Berry  
Ave., St. Paul 14, Minn. (Stainless steel.)  
Standard Steel Works Inc., 16th & Howell  
Sts., North Kansas City 16, Mo.  
Steel Products Co., P. O. Box 1007, Savannah,  
Ga.  
Stoughton Cab & Body Co., 408 E. South St.,  
Stoughton, Wis. (Milk.)  
Superior Metal Products, Inc., Branson & 18th  
Sts., Marion, Ind. (To order.)  
Truck Welding & Equipment Co., 739 Ninth  
Ave., N. Seattle 9, Wash.  
Wentworth & Irwin, Inc., 123 N. E. Oregon  
St., Portland 14, Ore.  
Wichita Body & Equipment Co., 1926 N. Broad-  
way, Wichita 12, Kan. (Live fish trans-  
port.)

Wilco, Inc., 400 E. Decatur St., Kenton, Ohio.  
Wright Co., Thomas, 185 Dey St., Jersey City  
6, N. J.

### TANKS and SYSTEMS, Gasoline and Oil Storage

Airtherm Mfg. Co., 700 S. Spring Ave., St.  
Louis 10, Mo.  
Biggs Boiler Works Co., 1007 Bank St.,  
Akron, Ohio.  
Birmingham Tank Co., Div. of Ingalls Iron  
Works Co., 620 Ave. D, Birmingham, Ala.  
(Tanks.)  
Bowser, Inc., 1302 E. Creighton Ave., Fort  
Wayne 2, Ind.  
Butler Mfg. Co., 7400 E. 13th St., Kansas City  
26, Mo.  
Chicago Boiler Co., 1965 Clybourn Ave., Chi-  
cago 14, Ill. (Underground tanks.)  
Columbian Steel Tank Co., 1409 W. 12th St.,  
Kansas City 7, Mo.  
Cutler Metal Products Co., 1025 Line St.,  
Camden, N. J.  
Eaton Metal Products Corp., 13th St. & Wills  
Ave., Omaha 2, Nebr.  
Erie Meter Systems, Inc., 1602 Wagner Ave.,  
Erie, Pa. (Systems.)  
Farrell Mfg. Co., Joliet, Ill.  
Good-All Electric Mfg. Co., 112 W. First St.,  
Ogallala, Neb.  
Independent Iron Works, 8th & Pine Sts., Oak-  
land 20, Calif.  
Kaustine Co., Perry, N. Y. (Tanks.)  
Kennedy Tank & Mfg. Co., 1201 Beecher St.,  
Indianapolis 7, Ind.  
Morrison Bros. Co., 2401 Elm St., Dubuque,  
Iowa.  
Niles Steel Tank Co., Niles, Mich. "Life-  
time."  
Petroleum Systems, Inc., 2914 E. Grand Blvd.,  
Detroit 2, Mich. (Hydraulic flotation sys-  
tem.)  
Progress Mfg. Co., Oil Equipment Div., Arthur,  
Ill.  
Quaker City Iron Works, Aramingo & On-  
tario Sts., Philadelphia 34, Pa.

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Tarpaulins on open-top trailers can now be kept lashed down tight, through wet and dry weather, by the use of rubber "springs" called "Tarp-Tethers".

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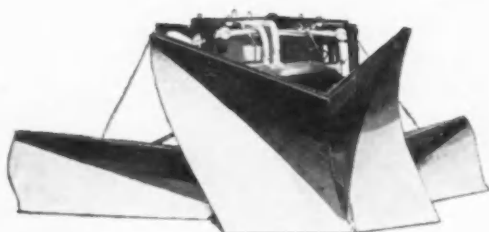
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### TANKS—continued

Richmond Engineering Co., Seventh & Hospital Sta., Richmond 1, Va. (Tanks.)  
Sharpville Steel Fabricators, Inc., Sharpville, Pa.  
Smith Mfg. Corp., Grover, 850 E. Valley Blvd., San Gabriel, Calif.  
United States Steel Products Div. United States Steel Co., 5100 Santa Fe Ave., Los Angeles 58, Calif. (Tanks.)  
Wilson's Sons, Inc., Wm. M., 8th St. & Franconia Ave., Lansdale, Pa.  
Wood Co., John, Bennett Pump Div., Muskegon, Mich.

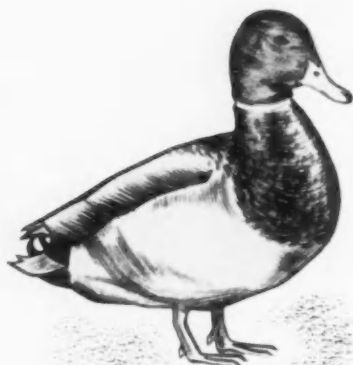
TAPE, MASKING, See Masking, Tape

### TAPPETS, Valve

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Allied Precision Products, 600 E. San Christopher Drive, Dunedin, Fla. (Hydraulic and mechanical.)  
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.  
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill. (Hydraulic and mechanical.)



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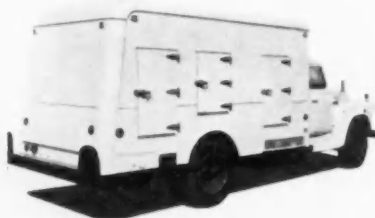


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Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave. S.W., Grand Rapids 2, Mich. (Hydraulic.)  
Eaton Mfg. Co., Saginaw Div., 1000 Rust St., Saginaw, Mich. (Also hydraulic and self-adjusting.)  
Ertel Mfg. Co., 2045 Martindale Ave., Indianapolis 7, Ind.  
Ertel Products Corp., 1400 E. 20th St., Indianapolis, Ind.  
Highland Machine Co., 3215 Superior Ave., Cleveland 14, Ohio.  
Johnson Products, Inc., 1185 E. Keating Ave., Muskegon, Mich.  
Thompson Products Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Automatic self-contained.)  
Wohler Corp., 700 E. Grand River Drive, Lansing 5, Mich.  
Wolverine Gear & Parts Co., Osseo, Mich.

TARPAULINS, See Covers, Truck

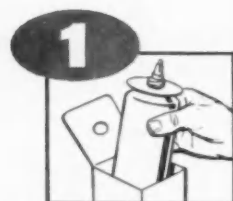
### TELEPHONE SERVICE, Private Line

(Advertisers Only)  
Bell Telephone System, Local Office.

TELEPHONES, MOBILE, See Radios, Two-Way

### TERMINALS, Wire

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highways, Flint 2, Mich.  
Ark-Les Switch Corp., 51 Water St., Watertown 72, Mass.  
Barey-Nicholson Co., 8100 Joy Rd., Detroit 4, Mich.  
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.  
Burndy Corp., Omaton Div., Norwalk, Conn.  
Cole-Herscoe Co., 20 Old Colony Ave., Boston 27, Mass.  
Douglas Mfg. Div., Kingston Products Co., Railroad St., Bronson, Mich.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Electric Terminals Corp., 2019 Center St., Cleveland 13, Ohio.  
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.  
Inter-Continent Mfg. Co., 117 E. 13th St., Chicago 5, Ill.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.  
Monarch Insulated Wire Co., 491 Broadway, New York, N. Y.  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y.  
Ohio Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.  
Packard Electric Div., General Motors Corp., Dana St., Warren, Ohio.  
Patton-MacGuyer Co., Baker St. & Virginia Ave., Providence 5, R. I.  
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
Rajah Co., 35 Verona Ave., Newark 4, N. J.  
Reallflex Products Co., 335 38th St., Brooklyn 22, N. Y.  
Richards Mfg. Co., 20 E. Herman St., Philadelphia 44, Pa.  
Shakeproof Div. of Illinois Tool Works, St. Charles Rd., Elgin, Ill., 2501 N. Keeler Ave., Chicago 39, Ill.  
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.  
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City, L. I., N. Y.  
Stimpson Co., Edwin R., 70 Franklin Ave., Brooklyn, N. Y.  
Thompson-Bremer & Co., 520 N. Dearborn St., Chicago 10, Ill.  
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.  
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Solderless.)  
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.  
Wade Electric Products Co., 211 N. Jacobs St., Sturgis, Mich.  
Walker Bros., River & End Sts., Conshohocken, Pa.



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### TERMINALS—continued

Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.  
Zierick Mfg. Corp., Beechwood & Rockdale Aves., New Rochelle, N. Y.

TESTERS, BATTERY, See Instruments, Storage Battery Testing

### TESTERS, Bearing Wear

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.

Bennett-Feragen, Inc., 1408 Jerome St., Niles, Mich.

Federal-Mogul Service, Div. of Federal-Mogul-Bower Bearings Inc., 11031 Shoemaker Rd., Detroit 13, Mich.

Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

### TESTERS, Brake

(See Gages, Brake Drum; Gages, Brake Shoe)  
American Instrument Co., Silver Spring, Md.

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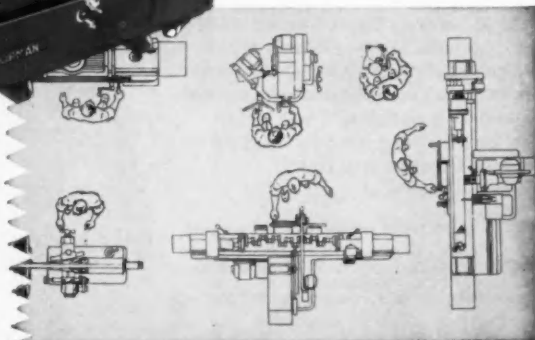
We will show you not alone how to operate it, but how you can reduce engine down-time and increase the reliability of your overhauls. Van Norman Automotive Equipment Company, Springfield 7, Mass., U.S.A. A Division of Van Norman Industries, Inc.



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## CCJ's Product Directory

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bendix Products Div. of Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind.  
Bennett-Feragen, Inc., 1408 Jerome St., Niles, Mich.  
Permafuse Corp., 675 Main St., Westbury, N. Y.  
Tapley Products, 53 Park Pl., N. Y. 7, N. Y. (Decelerometer.)  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

### TESTERS, Cooling System Leak

AC Spark Plug Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.  
Enell Associates Inc., 9701 Clinton Rd., Cleveland 9, Ohio.  
Grigg Specialty Tools, 8103 Barbisa Ave., Hunting Park, Calif.  
James Industries Inc., Skaneateles, N. Y.  
Radiator Specialty Co., 1400 W. Independence Blvd., Charlotte 1, N. C.  
Stant Mfg. Company, Inc., Connersville, Ind.

### TESTERS, Cylinder Block

K & W Products, Inc., 8319 Allport Ave., Whittier, Calif.  
Moguloid Co. of America, 3520 W. Carroll St., Chicago 24, Ill.  
P & G Mfg. Co., 305 N.E. Russell St., Portland 12, Ore.

### TESTERS, Diesel Equipment

Allis-Chalmers Mfg. Co., Buda Div., 1135 S. 70th St., Milwaukee 1, Wis.  
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Diesel Control Corp., 228 N. Marine Ave., Wilmington, Calif.  
Kent-Moore Organization Inc., 1501 S. Jackson St., Jackson, Mich.

### TESTERS, Driver

Allgair, Earl, Arlington, Va.  
Keystone View Co., Hamilton & Crandall Sts., Mendville, Pa.  
Porto-Clinic Instruments, Inc., 298 Broadway, New York 14, N. Y.

TESTERS, ELECTRICAL, See Instruments, Electrical Circuit Testing  
TESTERS, ENGINE, See Analyzers, Trouble

### TESTERS, Fuel Pump

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Airtex Automotive Div., Airtex Products, Inc., Fairfield, Ill.  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Arco Mfg. & Sales Corp., 453 Tenth Ave., New York 18, N. Y.  
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa. (Diesel.)  
Cornwell Quality Tools Co., Magadore, Ohio.  
Hygrade Products Div., Standard Motor Products, Inc., 32-18 Northern Blvd., Long Island City, N. Y.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 5, Ohio.  
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Schauer Mfg. Co., 4500 Alpine Ave., Rossmore, Ohio.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Weidenhoff Corp., Algonia, Iowa.

### TESTERS, Gasoline Mileage

Almquist Engrg. Co., Milford, Pa.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Gauthier, Donat A., 7416 Poe Ave., Detroit 6, Mich.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Snow-Crags Corp., 5840 S. Oakley Ave., Chicago 36, Ill.  
Speedometer Service Co., 151 Forest St., Montclair, N. J.





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### TESTERS, Headlight, Optical

Bean Div. Food Machinery & Chemical Corp., John, 1805 S. Cedar St., Lansing, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Heyer Industries, Inc., 471 Cortlandt St., Belleville 9, N. J.  
Hopkins Mfg. Corp., 428 Peyton Ave., Emporia, Kans.  
Manbee Equipment Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TESTERS, INNER TUBE, See Tanks, Inner Tube Testing

### TESTERS, Inspection for Cracks in Parts

Magnaflux Corp., 6900 NW Highway, Chicago 31, Ill.

### TESTERS, Radiator

Fisher & Porter Co., 700 Warminster Rd., Hatboro, Pa.  
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.  
Stant Mfg. Co., Connorsville, Ind.

### TESTERS, Spark Plug

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Acme Electric Corp., Cuba, N. Y.  
B G Corp., 321 Broad Ave., Ridgefield, N. J.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Champion Spark Plug Co., 900 Upton Ave., Toledo, Ohio.  
Crosley Instruments, 10 S. River St., Aurora, Ill.  
Kal-Equip Co., Box 567, Kalamazoo, Mich.  
Kastar, Inc., 200 Lincoln Ave., New York 64, N. Y.  
King Electric Equipment Co., 9115-23 Inman Ave., Cleveland 6, Ohio.  
Miller Co., L. B., 394 State St., Stamford, Conn.  
Rinck-Mellwaine Inc., 16 Hudson St., New York 13, N. Y.  
Wudel Mfg. Co., Edmund J., 6082 Ferguson Dr., Los Angeles 22, Calif.

### TESTERS, Valve and Clutch Spring

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Valve.)  
Advertising Distributors, Inc., 6046 Shaw Ave., St. Louis 10, Mo.  
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. (For valve and clutch springs.)  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Sturtevant Co., P. A., Addison, Ill.  
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.

### THERMOMETERS, Recording and Indicating

Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Barber-Colman Co., 1300 Rock St., Rockford, Ill.  
Bristol Co., Waterbury 20, Conn.  
Dillon Co., W. C., 14620 Keswick St., Van Nuys, Calif.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Foxboro Co., Neponset Ave., Foxboro, Mass.  
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery indicating.)  
Gotham Instruments, Div. of American Machine & Metals, Inc., 283 Broadway, New York 7, N. Y.  
Illinois Testing Laboratories, 420 N. LaSalle St., Chicago, Ill.  
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill. (Indicating.)  
Lewis Engineering Co., 339 Church St., Naugatuck, Conn.  
Minneapolis-Honeywell Regulator Co., Industrial Div., Wayne & Windrim Aves., Philadelphia 44, Pa.  
Powers Regulator Co., 3400 Oaktown St., Skokie, Ill.

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COLORADO—DENVER—Timples Bros., Inc.  
CONNECTICUT—SOUTH NORWALK—Truck Equipment Co., Inc.  
FLORIDA—BRADENTON—Miller Sales, Inc. • MIAMI—DeBoliac Truck Equipment Co. • W. PALM BEACH—DeBoliac Truck Equipment Co.  
GEORGIA—ATLANTA—Brooker Truck Equipment Co.  
IDAHO—BOISE—Carl R. Burt Equipment Co.  
ILLINOIS—CHICAGO—General Body Sales Corp. • Talbert Trailers, Inc. (Lyons) • Erlinder Mfg. Co. • SPRINGFIELD—Capitol Trailer & Body Co.  
INDIANA—EVANSVILLE—Superior Welding Co. • FORT WAYNE—Hoosier Truck Equipment • NOBLESVILLE—Warner Commercial Body, Inc. • SOUTH BEND—General Equipment & Machine Co.  
IOWA—DES MOINES—Weston Dump Body Co.  
KANSAS—LIBERAL—Tradewind Industries, Inc.  
KENTUCKY—LOUISVILLE—Tom Rice, Inc.  
LOUISIANA—BATON ROUGE—Dealers Truck Equipment Co. • NEW ORLEANS—Truck Equipment Co. • SHREVEPORT—Dealers Truck Equipment Co.  
MARYLAND—BALTIMORE—Warner Fruehauf Trailer Co., Inc.  
MASSACHUSETTS—BOSTON—W. F. Lacey & Sons Co. (Medford)  
MICHIGAN—DETROIT—Scientific Brake & Equipment Co. • J. J. Lynn & Sons • GRAND RAPIDS—Allied Truck Equipment Co. • LANSING—Truck & Trailer Equipment Co. • SAGINAW—Scientific Brake & Equipment Co.  
MINNESOTA—DULUTH—Lakeshore Body & Equipment Corp. • ST. PAUL—Power Brake & Equipment, Inc.  
MISSOURI—KANSAS CITY—Monaco Manufacturing Corp. • ST. LOUIS—Steelweld Equipment Co., Inc. • McCabe-Powers Auto Body Co.  
MONTANA—JOLIEN—McClellan's, Inc. • MISSOULA—Superior Coach Sales  
NEBRASKA—OMAHA—Omaha Body & Equipment Co.  
NEW JERSEY—NEWARK—Industrial Truck Equipment Corp. • THOROFARE—H. A. DeHart & Son  
NEW MEXICO—ALBUQUERQUE—Timples Bros., Inc.  
NEW YORK—ALBANY—Estate of Andrew J. Ronan • BUFFALO—Universal Truck Equipment Corp. • NEW YORK—Amel Brake Co. • J. C. Truck Equipment, Inc. (Garden City Park) • SHERMAN—Sherman Hydraulic Co., Inc. • SYRACUSE—L. B. Smith, Inc. • TROY—Howe Brothers  
NORTH CAROLINA—CHARLOTTE—Twin-States Equipment Co.  
NORTH DAKOTA—FARGO—Travis Bros. Body Works  
OHIO—CINCINNATI—Melvin L. Aston Welding Co. • CLEVELAND—Schaefer Body, Inc. • COLUMBUS—Harry J. Reynolds & Associates, Inc. • DAYTON—Kencar Equipment Co. • TOLEDO—Riedy-Manner Truck Equipment Corp. • YOUNGSTOWN—Dentry Truck Body & Trailer Service Co.  
OKLAHOMA—TULSA—Truck Parts & Equipment Co.  
OREGON—PORTLAND—Utility Trailer & Equipment Co., Inc.  
PENNSYLVANIA—ALLENTOWN—Allentown Brake & Wheel Service • CAMP HILL—L. B. Smith, Inc. • ERIE—Farm Equipment Co. • HUMMEL'S WHARF—Tractor Mfg. & Sales Co. • PHILADELPHIA—S. J. Eshin • PITTSBURGH—Barati Brothers • SCRANTON—Scranton Brake Service Co., Inc. • WILLIAMSPORT—Servall Machinery & Supply Corp.  
TENNESSEE—KNOXVILLE—Post & Company, Inc. • MEMPHIS—Dealers Truckstell Sales, Inc. • NASHVILLE—Tennessee Steel Products, Inc.  
TEXAS—AMARILLO—King Trailer & Equipment Co., Inc. • DALLAS—Texas Hydraulic & Equipment Co. • EL PASO—P & R Truck Equipment Co. • FORT WORTH—Beckman Trailer Sales • HOUSTON—Truck Parts & Equipment, Inc. • SAN ANTONIO—Commercial Body Corp. • WICHITA FALLS—Longhorn Trailer & Body Co.  
UTAH—SALT LAKE CITY—Foulger Equipment Co.  
VIRGINIA—RICHMOND—Baker Equipment Engineering Co.; McIlhenny Equipment Co., Inc. • ROANOKE—General Welding & Machine Co.; McIlhenny Equipment Co., Inc.  
WASHINGTON—SEATTLE—Transport Trailer & Equipment Co.; Air Mac, Inc. • SPOKANE—Spokane Machinery Co., Inc.; Air Mac, Inc.  
WEST VIRGINIA—WHEELING—Power Brake Co.  
WISCONSIN—APPLETON—Auto Body Works, Inc. • MADISON—Johnson Welding & Equipment Co., Inc. • MILWAUKEE—Motor Truck Body Co.; Brake & Equipment Co., Inc.  
DISTRICT OF COLUMBIA—WASHINGTON—Warner Fruehauf Trailer Co.  
CANADA—Manufactured in Windsor, Ontario, Canada by Ecombe Engineering, Ltd., and distributed by Beaver Hydraulic Equipment, Ltd., Montreal; Bits Welding Shop, St. Thomas; Edmonton Truck Body, Ltd., Edmonton; Ecombe Sales and Service, Kingston; Elman Motors, Ltd., Sydney; Sam Gidden, Clinton; Kuncak Machine Works, Winnipeg; Summer Equipment, Ltd., Toronto; Wheel & Brake Service, Ltd., Hamilton; J. W. Wolsey, Port Arthur.  
SASKATOON, SASKATCHEWAN—Mine Distributors, Ltd.  
VANCOUVER, BRITISH COLUMBIA—Pioneer Equipment Ltd.  
CUBA—HAVANA—Cuban Agricultural Services, Inc.  
\*Indicates Power Loader distributors only.  
\*\*Indicates Power Loader and Power Gate distributor only.  
Above distributor list current at time of publication.

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... For the Finest, Most Complete Line of  
Materials Handling Equipment For Trucks!



- Your Daybrook distributor offers a new standard of *Customer Satisfaction*!

- The Daybrook complete line is 100% designed, engineered, and manufactured by Daybrook—assuring quality of materials, finest construction and workmanship.

- New, exclusive mechanical construction fea-

tures—PLUS the sealed hydraulic cylinder that merits Daybrook's *one-year warranty*.

- Expert "Field Engineering" assistance that puts the *right* equipment on the job.

See your Daybrook distributor . . . let him help you with the equipment and "know-how" that makes trucks *more* than transportation.

**DAYBROOK HYDRAULIC DIVISION • L. A. YOUNG SPRING & WIRE CORPORATION • BOWLING GREEN, OHIO**



Mr. George Hart, President



Mr.

# **Bendix-Westinghouse Air Brakes**

## ***low-cost performance they give***



Over the past twenty-seven years Bendix-Westinghouse has produced nearly 2,000,000 air brake compressors—far more than any other manufacturer. TU-FLO 400 model above is designed for the medium and heavyweight classes. Other Bendix-Westinghouse compressors are for the light- and extra-heavy-duty classes.

In its twenty-six years in business, Hart Motor Express, Minneapolis, Minn., has purchased 1,250 trucks and tractors and, at present, operates 155 trucks and tractors over its more than 2,500 route miles from Chicago to Montana.

Last year fleet units of this progressive company rolled up 5,603,805 miles and averaged fifteen tons per load in so doing.

### **Experience Shows the Way**

President George Hart speaks from long experience when he says: "Our fundamental aims have always been fast, dependable service, low operating cost and maximum safety. And we found out long ago that,

*More trucks travel more miles with*

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BENDIX-W





Mr. Clyde Vaillancourt, Supt. of Maintenance



Mr. Albert Franklin, Driver

## can give you the same dependable, **HART MOTOR EXPRESS, INC.!**

when it comes to air brakes, the best for dependability, economy, and safety are Bendix-Westinghouse."

Hart Motor Express records graphically illustrate why Mr. Hart feels as he does. For instance, operating cost per Bendix-Westinghouse compressor during 1956 was only \$.00016 per mile, while average brake lining life per unit was 150,000 miles. And in 1956, as in other years, Hart Motor Express gathered more than its share of safe driving awards, too.

As Hart units move between the company's thirteen terminals, the sure dependability of Bendix-Westinghouse Air Brake equipment is also helping to maintain the driver confidence and efficiency that have contributed so substantially to the quarter-

century success of Hart Motor Express.

Outstanding performance like this from Bendix-Westinghouse Air Brakes is not at all unusual. Thousands of truck operators the country over are equally emphatic in saying: "We wouldn't have anything but Bendix-Westinghouse."

### Here's What to Do

To enjoy this acknowledged superiority, specify Bendix-Westinghouse Air Brakes when you place your next new truck order. Or consult your local Bendix-Westinghouse distributor about converting your present trucks to air with handy field installation kits.

*Bendix-Westinghouse than with all other air brakes combined!*

***Bendix-Westinghouse***



**AIR BRAKES**

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY • General Offices and Factory—Elyria, Ohio • Branches—Berkeley, California, and Oklahoma City, Oklahoma

## thermostats to tires

### THERMOMETERS—continued

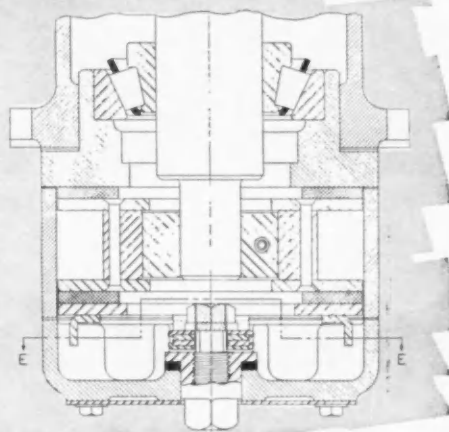
Precision Thermometer & Instrument Co.,  
1465 Brandywine St., Philadelphia 30, Pa.  
(Indicating.)  
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.  
Taylor Instrument Companies, 95 Ames St.,  
Rochester 1, N. Y.  
United States Gauge Div., of American Machine & Metals, Inc., Clymer Ave., Sellersville, Pa.  
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

### THERMOSTATS

Barber-Colman Co., 1300 Rock St., Rockford, Ill.  
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio.  
Bridgeport Thermostat Div., Robertshaw-Fulton Co., Milford, Conn.  
Detroit Controls Corp., 5900 Trumbull Ave., Detroit 8, Mich.  
Dole Valve Co., 6201 Oakton St., Morton Grove, Ill.  
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.

## BRADEN TRUCK WINCHES

**Holds  
Like  
a Bear  
Trap . . .**



All medium and heavy-duty BRADEN Winches are equipped with the famous BRADEN Oil-Cooled, Fully-Adjustable, Automatic Safety Brake. This brake, which was developed by BRADEN engineers, gives positive action under all conditions, and enables the operator to always keep the load under perfect control.

BRADEN WINCHES are made for back-of-cab and front mounting and range in capacities from 6,000 to 100,000 pounds. Specify BRADEN Winches . . . and be sure!

WRITE  
FOR  
CATALOG

BRADEN WINCH COMPANY

P. O. Box 547, Broken Arrow, Oklahoma



In service around the world

### CCJ's Product Directory

Fulton Siphon Div., Robertshaw-Fulton Controls Co., W. Cumberland St., Knoxville 1, Tenn.  
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.  
Hawk Tool & Engrg. Co., 20 W. Washington St., Clarkston, Mich. (Sole distributors, Nason Co., 20 W. Washington St., Clarkston, Mich.)  
Minneapolis-Honeywell Regulator Co., 2753 Fourth Ave., S., Minneapolis 8, Minn. (Control systems, for buses.)  
Ranco, Inc., 601 W. 5th Ave., Columbus 1, Ohio.  
Spencer Thermostat Div., Metals & Control Corp., 34 Forest St., Attleboro, Mass.  
Standard-Thomson Corp., Vandalia, Ohio.  
United Electro Control Co., 85 School St., Watertown 72, Mass.

**THIRD AXLE UNITS.** See Axle Units, Third, for Trucks

### THREADED INSERTS

Groov-Pin Corp., 1125 Hendricks Causeway, Ridgefield, N. J.  
Heli-Coil Corp., 591 Shelter Rock Lane, Danbury, Conn.  
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio.  
Roylyn, Inc., 1706 Standard Ave., Glendale 1, Calif.  
South Chester Corp., Southco Div., 228 Industrial Highway, Lister, Pa.

**THREAD RESTORING TOOLS.** See Tools Thread Restoring

### TIE-DOWNS, Tarpaulin

Rubberhide Co., Inc., Box 631-C, Trenton, N. J.

**TIMING CHAINS.** See Chains, Timing

### TIRE, Branding Irons

Everhot Mfg. Co., 57 S. 19th Ave., Maywood, Ill.  
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.  
Merkert & Sons, 146-10 Jamaica St., Jamaica, N. Y.  
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.  
Vulcan Electric Co., 88 Holten St., Danvers, Mass.

**TIRE BUFFERS.** See Buffers, Tire (Electric)  
**TIRE CARRIERS.** See Carriers, Tire  
**TIRE CHAINS AND EQUIPMENT.** See Chains, Tire; also Adjusters, Tire Chains

### TIRES, Pneumatic

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.  
Armstrong-Norwalk Rubber Corp., 20 Glover Ave., Norwalk, Conn.  
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.  
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.  
Dayton Rubber Co., 2342 Riverview Ave., Dayton, Ohio.  
Denman Rubber Mfg. Co., Warren, Ohio.  
Dunlop Tire & Rubber Corp., Sheridan Dr. & River Rd., Buffalo 5, N. Y.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.  
Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.  
Inland Rubber Corp., 515 Newman St., Mansfield, Ohio.  
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.  
Laher Tire & Rubber Co., of Calif., Oakland, Calif.  
Lee Rubber & Tire Corp., Conshohocken, Pa.  
McCreary Tire & Rubber Co., Box 700, Indiana, Pa.  
Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.  
Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.

12" shorter, 200 pounds lighter than any other multiple-speed transmission of comparable capacity.

Sufficient low gear reduction and spread to handle various road conditions without need for auxiliary transmission or two-speed axle.

Blocker-type synchronizers in all speeds, forward and reverse.

Replaceable bearing retainer inserts in all case bores.

Equally spaced steps between ratios.

Tower or remote control types.

Forced feed lubrication.

All six low range ratios available in reverse.

Screen for filtering oil.

Standard six-bolt S.A.E. power take-off apertures on each side.



*The driver with the rig that really delivers says:*  
**"Look at these 12 big profit features  
 in the new Spicer SYNCHRO-MASTER TWELVE**

Nothing ever like it before in efficient power transmission for heavy-duty vehicles! Nothing ever like it before to increase driver and vehicle productiveness... to reduce initial investment cost and maintenance expense.

Ask Dana engineers to help you to adapt this revolutionary new Spicer Transmission to your heavy-duty truck requirements, for new standards of economy and performance.

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**INDUSTRIAL VEHICLES AND EQUIPMENT:** Transmissions, Universal Joints, Propeller Shafts, Axles, Gear Boxes, Clutches, Forgings, Stampings.

**AVIATION:** Universal Joints, Propeller Shafts, Axles, Gears, Forgings, Stampings.

**RAILROAD:** Transmissions, Universal Joints, Propeller Shafts, Generator Drives, Rail Car Drives, Pressed Steel Parts, Traction Motor Drives, Forgings, Stampings.

**AGRICULTURE:** Universal Joints, Propeller Shafts, Axles, Power Take-Offs, Power Take-Off Joints, Clutches, Forgings, Stampings.

**MARINE:** Universal Joints, Propeller Shafts, Gear Boxes, Forgings, Stampings.

*Many of these products manufactured in Canada by Hayes Steel Products Ltd., Merriton, Ontario*





the danger and  
expense of  
exploding  
brake drums



USE *Exclusive*  
**MOTOR WHEEL**  
**Centrifuse**  
**Brake Drums**



The over 100 million Centrifuse Drums that have been in service are ample proof that the Centrifuse Drum is *explosion-free*! The steel containing ring will not allow the heat checks in the inner iron braking surface to break through.

Centrifuse Drums are not cast — they are made by fusing molten iron into a high grade steel stamping by means of centrifugal force.

This unique Centrifuse manufacturing process provides a drum that's better in every way — cooler, lighter and better balanced as well as explosion free.

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**MOTOR WHEEL Corporation**  
Lansing, Michigan

SERVING THE AUTOMOTIVE INDUSTRY SINCE 1906







## MOTOR WHEEL DISTRIBUTORS

*Cover the Nation and Canada*

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Wheel, Rim & Parts Co., Birmingham

### CALIFORNIA

Motor Rim & Wheel Service, Los Angeles  
Motor Rim & Wheel Service, San Francisco

### COLORADO

Quinn & McGill Motor Supply Co., Denver

### CONNECTICUT

Connecticut Wheel & Rim Co., New Haven  
Connecticut Wheel & Rim Co., Hartford

### FLORIDA

Southeast Wheel & Rim Co., Jacksonville

### GEORGIA

John A. Harris & Son, Inc., Atlanta

### ILLINOIS

Stone Wheel Inc., Chicago  
Illinois Wheel & Brake Co., Springfield  
Peoria Wheel & Rim Co., Peoria

### INDIANA

Indiana Wheel & Rim Co., Indianapolis  
Auto Wheel & Rim Service Co., Evansville  
Wheel & Rim Sales Co., Fort Wayne  
Wheel & Rim Sales Co., South Bend  
Stone Wheel, Inc., Hammond

### IOWA

Des Moines Wheel & Rim Co., Des Moines  
Stone Wheel and Rim Co., Davenport  
Des Moines Wheel & Rim Co., Cedar Rapids

### KANSAS

Borlein Young & Co., Wichita

### KENTUCKY

Auto Wheel & Rim Service Co., Louisville

### LOUISIANA

Southern Wheel & Rim Service, New Orleans

### MARYLAND

R. W. Harris & Sons, Baltimore

### MASSACHUSETTS

New England Wheel & Rim Co., Boston

### MICHIGAN

Rim & Wheel Service Co., Detroit  
Rim & Wheel Service Co., Grand Rapids

### MINNESOTA

Pioneer Rim & Wheel Co., Minneapolis

### MISSOURI

Borlein Young & Co., St. Louis  
Borlein Young & Co., Kansas City  
Borlein Young & Co., Springfield

### NEW MEXICO

Wheels & Brakes, Inc., Albuquerque

### NEBRASKA

Omaha Rim & Wheel Co., Omaha  
Morgan Wheel & Equipment Co., Omaha

### NEW JERSEY

Wheels Incorporated, Clifton

### NEW YORK

Wheels Incorporated, New York  
Wheels Incorporated, Albany  
Wheels Incorporated, Syracuse  
Fray, The Wheelman Inc., Buffalo  
Fray, The Wheelman Inc., Rochester

### NORTH CAROLINA

Carolina Rim & Wheel Co., Charlotte  
Carolina Rim & Wheel Co., Raleigh

### NORTH DAKOTA

Pioneer Rim & Wheel Co., Fargo

### OHIO

Motor Rim Manufacturers Co., Cleveland  
Motor Rim Manufacturers Co., Akron  
Rim & Wheel Service Inc., Cincinnati  
Rim & Wheel Service Inc., Dayton  
Hayes Wheel & Spring Service, Columbus  
Wheel & Rim Sales Co., Toledo

### OKLAHOMA

Southwest Wheel Inc., Oklahoma City

### OREGON

Auto Wheel Service, Portland

### PENNSYLVANIA

Standard Wheel & Rim Company, Harrisburg  
Kay Wheel Sales Co., Philadelphia  
Wheel & Rim Sales Co., Pittsburgh  
Standard Wheel & Rim Co., Lancaster

### RHODE ISLAND

New England Wheel & Rim Co., Providence

### TENNESSEE

John A. Harris & Son, Inc., Knoxville  
Beller Wheel, Brake & Supply Co., Memphis  
Beller Wheel, Brake & Supply Co., Nashville

### TEXAS

Southwest Wheel Inc., Dallas  
Southwest Wheel Inc., Houston  
Southwest Wheel Inc., San Antonio  
Southwest Wheel Inc., Lubbock

### UTAH

Henderson Rim & Wheel Service, Salt Lake City

### VIRGINIA

Dixie Wheel Co., Inc., Richmond

### WASHINGTON

Bearing & Rim Supply Co., Spokane  
Motor Wheel & Parts Co., Seattle

### WISCONSIN

Aring Equipment Co., Inc., Milwaukee

### CANADA

Alberta Wheel Distributors, Ltd., Edmonton  
Automobile Supply Co., Winnipeg  
Rt. Garry Tire & Auto Supplies, Winnipeg  
Auto Wheels & Supplies, Ltd., Montreal  
Wheels & Equipment, Ltd., Vancouver  
Wheel & Rim Company of Canada, Toronto  
Mutual Supplies, Ltd., Calgary  
Brakes & Wheels, Ltd., Regina

## tires

## to tools

### TIRES—continued

Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.  
Schenuit Rubber Co., Frank G. Railroad & Union Aves., Baltimore 11, Maryland.  
Seiberling Rubber Co., Akron, Ohio.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

### TIRES, Solid

Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Goodrich Co., Tire & Equipment Div., B. F., 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRE GAGES, See Gages, Tire Pressure  
TIRE INFLATORS, See Chucks, Air (Tire Inflating); also Meters, Air Tower  
TIRE RECAPPING MOLDS, See Molds, Tire Recapping and Retreading  
TIRE REGROOVERS, See Regroovers, Tire  
TIRE REMOVING TOOLS, See Tools, Tire Removing and Replacing  
TIRE REPAIR MATERIALS, See Compounds, Tire Repair  
TIRE REPAIR TOOLS, See Tools, Tire  
TIRE SPREADERS, See Tools, Tire Spreading

### TIRE TREAD SERVICE

General Tire & Rubber Co., 1708 Englewood Ave., Akron, Ohio.  
Hawkinson Co., Paul E., Winter St., Minneapolis, Minn.  
Penstred Corp., Marshfield, Wis. (Steel coil tread.)  
Webster Rubber Co., Warren, Ohio.

TIRE VULCANIZERS, See Vulcanizers, Portable and Vulcanizer, Shop

### TOOLS, Battery Service

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill. (Terminal crimpers.)  
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. (Pliers, terminal tools, etc.)  
Bishman Mfg. Co., Osseo, Minn.  
Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. (Pliers and clippers.)  
Christie Electric Corp., 2410 W. 67th St., Los Angeles 43, Calif.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 99, Ill.  
General Scientific Equip. Co., 7516 Limekiln Pike, Philadelphia 50, Pa.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis. (Terminal pullers.)  
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Loock & Co., R. J., 843 N. Gay St., Baltimore, Md.  
Murray Corp., E. Joppa Rd., Towson 4, Md.  
New Britain Machine Co., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
P & C Tool Co., Box 5926, Milwaukee, Ore.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (Terminal pullers.)  
Rinck-Mellwaine, Inc., 15 Hudson St., New York 13, N. Y. (Terminal pullers.)  
Utica Drop Forge & Tool—Div. of Kelsey-Hayes Co., 2500 Whitesboro St., Utica 4, N. Y. (Pliers.)  
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.  
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Pliers.)  
Willard Storage Battery, Div. Electric Storage Battery Co., 246 E. 131st St., Cleveland 8, Ohio.  
Wilson, Inc., K. R., Arcade, N. Y.

## tools

CCJ's Product Directory

**TOOLS, Body and Fender Repair, Hand**  
A-B-C Mfg. Co., 2757 N. Ruth St., Phila. 34, Pa.  
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.  
Auto Specialties Mfg. Co., 643 Graves St., St. Joseph, Mich.  
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.  
Chicago Tool & Kit Mfg. Co., 230 N. Jefferson St., Chicago 6, Ill. (Hammers.)  
Douglas Tool Co., 5251 Pattison Ave., St. Louis 10, Mo. (Body.)  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.

Fairmont Tool & Forging Inc., 10611 Quincey Ave., Cleveland 6, Ohio.  
Heller Tool Co., Heller Dr., Newcomerstown, Ohio. (Files, etc.)  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Keyco Mfg. Co., 1244 E. 12th St., Oakland 6, Calif.  
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.  
Nicholson File Co., 23 Acorn St., Providence 1, R. I. (Files.)  
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio. (Body files.)  
P & C Tool Co., Box 5926, Milwaukie, Ore.

Penn Fibre & Specialty Co., 2024 E. Westmoreland St., Philadelphia 34, Pa.  
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. (Hand.)  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.  
Red Devil Tools, P. O. Box 355, Union, N. J.  
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex. (Hand.)  
Roberts Toledo Kubber Co., 4143 Monroe St., Toledo 13, Ohio. (Rubber hammers.)  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Stream Line Tools, Inc., Highway 70, Conover, N. C.  
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.  
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.  
Wilson, Inc., K. R., Arcade, N. Y.

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**Hanger Bearings** in all popular bore sizes, with bronze bushings or cast iron bearings. Fully adjustable brackets; self-aligning bearing assembly; lubricator fitting. Individually packaged.

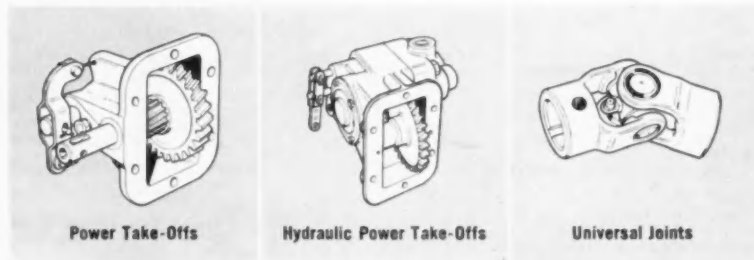
**Muncie Shafting** available in all sizes. Round shafts have 2" keyway on one end, long keyway at other end. You can stock standard sizes, cut to length as needed. Machined keys provided. Square and Hex shafts available.

2 machine keys included with each round shaft.



Hanger Bearing and Shafting Assembled.

Muncie Parts provides fastest service in the truck equipment field! Write for literature and the name of your nearest distributor!



Power Take-Offs

Hydraulic Power Take-Offs

Universal Joints

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2601 South Jefferson, Muncie, Indiana

**MUNCIE**

America's Most Complete Line of POWER TAKE-OFF EQUIPMENT

### TOOLS, Body and Fender Repair, Portable Electric

Black & Decker Mfg. Co., Towson 4, Md.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
Red Devil Tools, Coit St., Irvington 11, N. J.

### TOOLS, Body and Fender Repair, Portable Hydraulic

Bee-Line Co., P. O. Box 569, Davenport, Iowa.  
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.  
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.  
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.

### TOOLS, Body and Fender Repair, Portable Pneumatic

Borm Mfg. Co., 23 N. Union St., Elgin, Ill. (Hammers.)  
Brown Tool Mfg. Co., 9422 Trenton Ave., St. Louis 14, Mo.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Sauschild Mfg. Co., F. J., 540 Main St., Oneonta, N. Y.  
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis. (Hammers.)  
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill. (Hammers.)  
Watervliet Tool Co., 1346 Broadway, Albany 4, N. Y.

### TOOLS, Body and Fender, Soldering (Advertisers Only)

Linde Air Products Co., Div. of Union Carbide and Carbon Corp., 30 E. 42nd St., New York 17, N. Y.

### TOOLS, Brake Cylinder Cleaning and Polishing

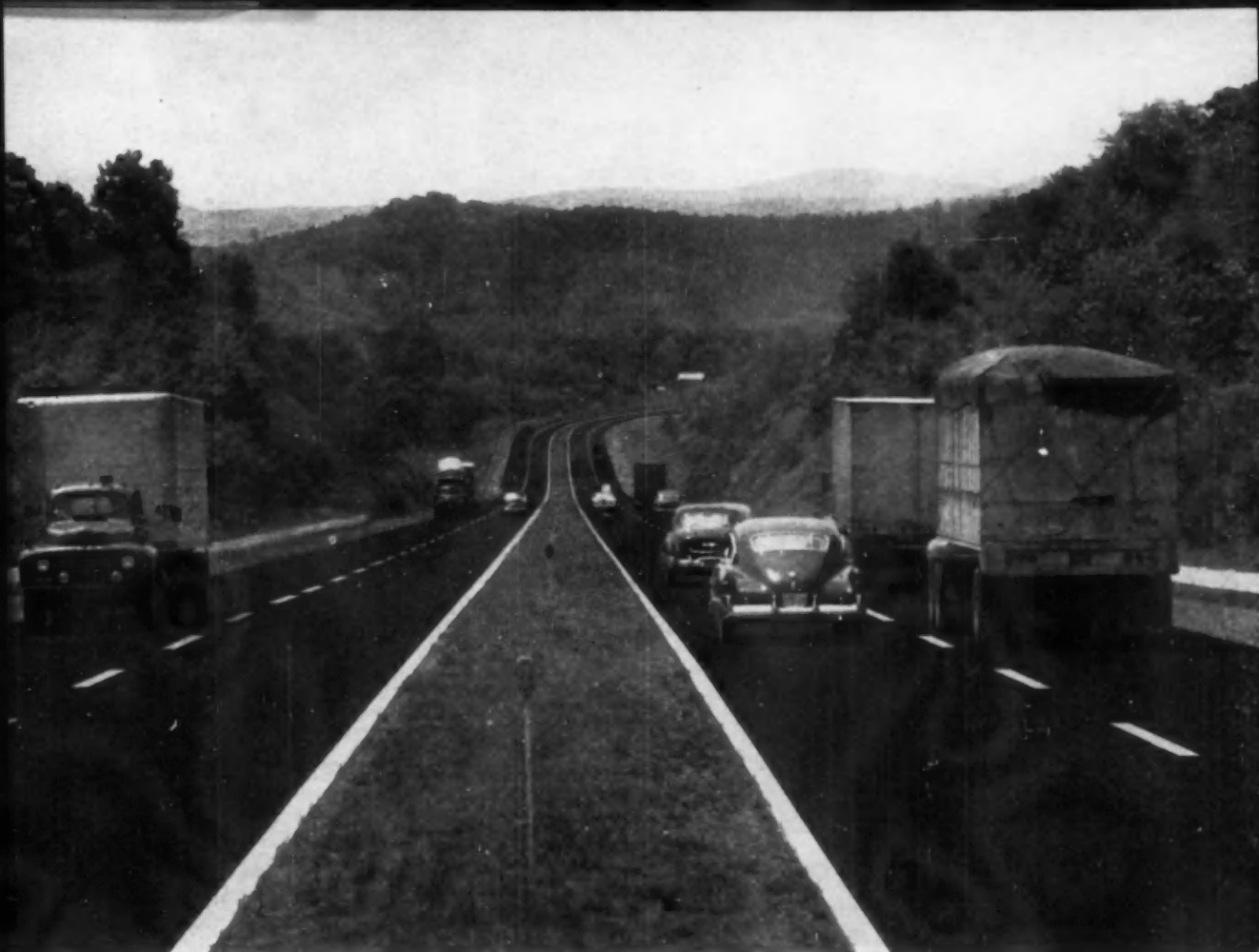
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

### TOOLS, Brake Spring Removing & Replacing

Barrett Equipment Co., 21st & Cass, St. Louis 6, Mo.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Krome Co., 39 Mulberry St., Reading, Pa. (Compressors.)  
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Utica Drop Forge & Tool—Div. of Kelsey-Hayes Co., 2500 Whitesboro St., Utica, N. Y. (Files.)  
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

### TOOLS, Brake Band Testing

Permafuse Corp., 675 Main St., Westbury, N. Y.



## Chassis grease additive forms lasting film... extends effective lubrication...reduces wear

Under severe operating conditions, shock loading, reciprocating and oscillating motion may wipe conventional chassis greases off bearing surfaces, or force them out of the bearing area. For such rugged service, a chassis grease containing the additive Moly-Sulfide proves extremely effective in extending effective lubrication and reducing wear.

When Moly-Sulfide is present between rubbing surfaces, it adheres to the metal and forms a protective film—preventing welding, fretting and galling. Lubrication engineers and maintenance specialists who specify chassis lubricants containing a minimum 3% of Moly-Sulfide find that it extends substantially the useful operating life of vital parts.

Auto manufacturers, too, have recognized Moly-Sulfide's superior properties. Several leading man-

ufacturers recommend Moly-Sulfide chassis grease to reduce noise and wear in such important parts as ball joints, spline drives, and torsion bar gears. One automobile manufacturer applies Moly-Sulfide grease at the factory as a break-in lubricant for rocker arm pivots.

### **Where can you get Moly-Sulfide chassis grease?**

Chassis greases containing Moly-Sulfide are available nationally. For a list of manufacturers of these greases—which includes several major oil companies—write for Bulletin Lu-2A. And, for a copy of "Molybdenum Disulfide as a Grease Additive," write for Bulletin Lu-17. Write Department 70, Climax Molybdenum Company, 500 Fifth Avenue, New York 36, N. Y.

## tools

## CCJ's Product Directory

### TOOLS, Clutch Alignment

(See also Machines, Clutch Rebuilding)

Accurate Parts Mfg. Co., 1600 S. Ashland Ave., Chicago 8, Ill.  
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.

Rovtar Tool Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### TOOLS, Contact Point Reconditioning

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.  
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.  
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.  
Heller Bros. Co., 865 Mt. Prospect Ave., New-ark, N. J.

## HIGHWAY ACCIDENT

### COSTS

Damaged cargo

Delayed shipment results in ill will

Equipment tied up

Disrupted schedules

Litigation

Loss of insurance rating

Direct repairs

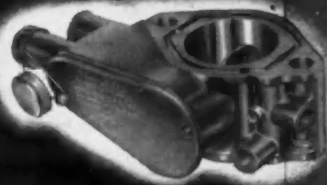
**CAN YOU AFFORD  
TO BE WITHOUT  
GOVERNOR  
ACCIDENT  
CONTROL?**

**When HANDY GOVERNORS  
COST SO LITTLE**



**KING-SEELEY CORPORATION**

ANN ARBOR, MICHIGAN



K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.  
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
Lanagan & Hoke, Inc., Easton Rd., Warrington, Pa.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.  
Miller Co., L. B., 394 State St., Stamford, Conn.  
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.  
Nolvex File Co., 10329 Detroit Ave., Cleveland 2, Ohio.  
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.  
Rinck-Mellvaine, Inc., 18 Hudson St., New York 13, N. Y. (Rimac.)  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa.  
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Machines, Cylinder Rebor-ing, Portable

(See also Hones, Cylinder; also De-glazers, Cylinder)

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.  
Evans Reamer & Machine Co., New Lexington, Ohio.  
Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio.  
Rottler Boring Car Co., 1727 First Ave., S., Seattle 4, Wash.  
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo.  
Storm-Vulcan, Inc., 2225 Burbank St., Dallas 19, Tex.  
Van Norman Co., 2640 Main St., Springfield 7, Mass.  
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Hand

Agner Simplex Co., 106 Pine St., Burlington, Wis.  
Apco Mossberg Co., Lamb St., Attleboro, Mass.  
Apex Machine & Tool Co., 1025 Patterson Blvd., Dayton, Ohio.  
Armstrong Bros. Tools Co., 5200 Armstrong Blvd., Chicago 30, Ill.  
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.  
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Cal.  
BMC Mfg. Co., 5 Griswold St., Binghamton, N. Y.  
Bacharach Industrial Instrument Co., 7301 Penn Ave., Pittsburgh 8, Pa.  
Bath & Co., John, 18 Grafton St., Worcester, Mass.  
Bay State Tap & Die Co., Chauncey St., Mansfield, Mass.  
Beall Tool Div., Herbrand & Co., East Alton, Ill. (Ratchet.)  
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y.  
Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.  
Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.  
Blackhawk Mfg. Co., 5325 W. Rogus St., Milwaukee 1, Wis.  
Boker & Co., 101 Duane St., New York, N. Y.  
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.  
Bremil Mfg. Co., 1790 Pittsburgh Ave., Erie, Pa.  
Bridgeport Hardware Mfg. Corp., Scofield Ave., Bridgeport, Conn.  
Brubaker & Bros., Co., W. L., Millersburg, Pa.  
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. (Rubber mallets.)  
Callahan Mfg. Co., 90 Halton St., Danver, Mass.  
Cal-Van Machine Products, Inc., 1809 S. Water St., Jackson, Miss.  
Card Mfg. Co., S. W. Div., Union Drill Co., Rumford Ave., Mansfield, Mass.  
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill.  
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio.



# MINER

TUBULAR BAR TYPE

**DROP-FORGED**

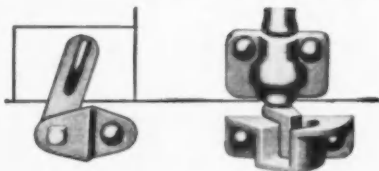
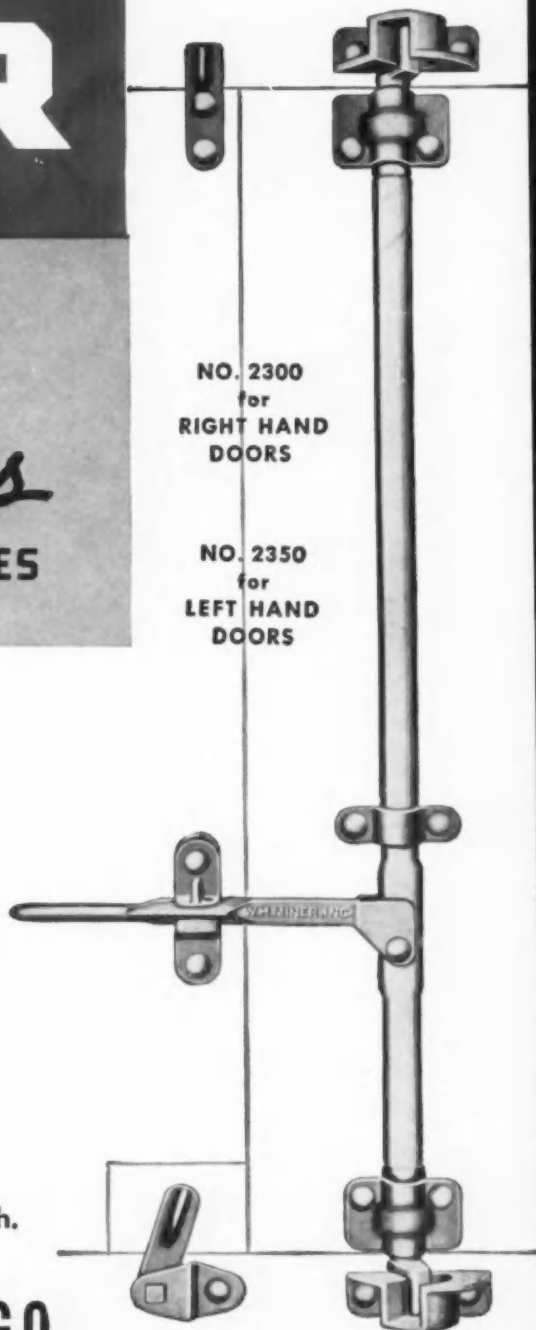
*Door Fasteners*  
FOR TRUCK AND TRAILER BODIES

1. DROP FORGED for greater strength.
2. OVAL LOCKING BAR for greater rigidity.
3. SPECIAL CARBON STEELS for greater endurance.
4. DEEPER KEEPERS for positive security of load.
5. FEWER PARTS for lower maintenance costs.
6. SIMPLIFIED ASSEMBLY for lower cost of application.
7. SMOOTH FINISH for de luxe appearance.
8. LIMITING STOP to prevent handle from marring finish.

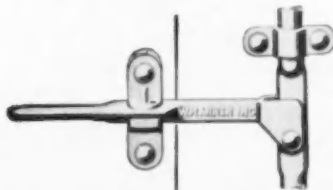
**W. H. MINER, INC., CHICAGO**

NO. 2300  
for  
RIGHT HAND  
DOORS

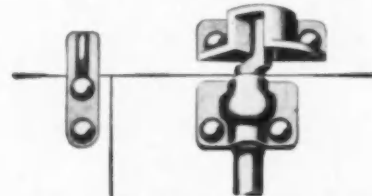
NO. 2350  
for  
LEFT HAND  
DOORS



The longer bottom lock bar end, plus greater depth of lower keeper, provides a more secure locking feature and prevents disengagement of the cam from the keeper pocket.

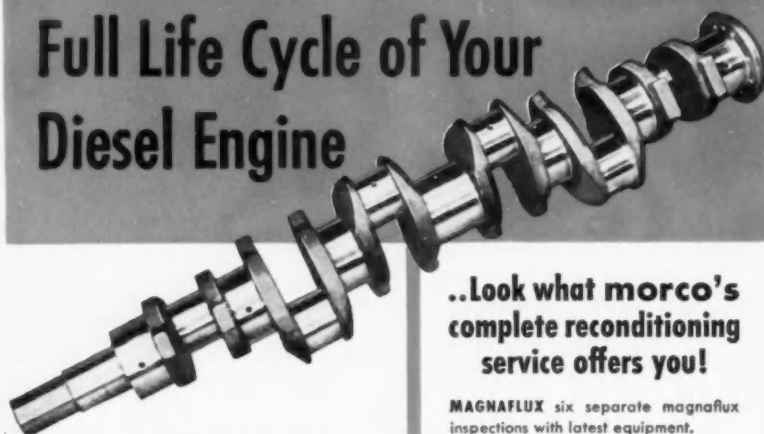


The name "Miner" on the handle is a symbol of quality and excellence in design, backed by nearly 60 years of manufacturing experience in door locking devices.



Greater security is assured by providing a deeper pocket in the upper keeper and a longer cam on the upper lock bar end.

# morco Factory-Certified Exchange Crankshafts give Trouble-Free Operation for the Full Life Cycle of Your Diesel Engine



morco dealers—coast to coast—are stocked with reconditioned, like-new crankshafts for different diesel engine models. Users of Detroit Diesel and Cummins engines can exchange worn shafts for MORCO factory-reconditioned shafts through authorized dealers.

Why take chances? Let your dealer be your source for dependable, safe crankshaft regrinding. You get immediate service, guaranteed quality and terrific economy. Ask your dealer about MORCO today.

**..Look what morco's  
complete reconditioning  
service offers you!**

**MAGNAFLUX** six separate magnaflex inspections with latest equipment.

**GROUND** on production type equipment to engine manufacturers' specifications. Original stroke retained.

**TOCCO\* HARDENED** by the original equipment method when necessary.

**ROLLED FILLETS** increase strength at the most critical areas.

**DYNAMIC BALANCE** restored on original factory balancing equipment.

**THRUST COLLARS** and surfaces restored.

**GEAR FITS** renewed.

**KEY WAYS** restored.

**DOWEL HOLES** repaired.

**OIL SEAL** surfaces renewed.

**THREADS** repaired.

\*TOCCO is a registered trademark of the Ohio Crankshaft Co.

**morco**  
INC.  
BEDFORD, OHIO

a subsidiary of  
**The Ohio Crankshaft  
Company**

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Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

## tools

### TOOLS—continued

Cleveland Steel Tool Co., 660 W. 82nd St., Cleveland, Ohio.  
Cornwell Quality Tool Co., Mogadore, Ohio.  
Conant & Donelson Co., Conway, Mass.  
Continental Rubber Works, 1902 Liberty St., Erie, Pa.  
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. (Wheel bearing adjusting nut.)  
Danielson Mfg. Co., Danielson, Conn.  
Delaware Tool Steel Corp., 3300 Market St., Wilmington 99, Del.  
Division Lead Co., 836 W. Kinzie St., Chicago, Ill. (Lead and babbitt.)  
Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.  
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill. (Duro Chrome.)  
Fairmount Tool & Forging Co., 10611 Quincy St., Cleveland 6, Ohio.  
Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn.  
G. M. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.  
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Lead, babbitt, copper, rubber, etc.)  
Geometric Tool Co., Div. of Greenfield Tap & Die Corp., Blake & Valley Sts., New Haven 15, Conn. (Solid adjustable.)  
Goodrich Co., B. F., 600 S. Main St., Akron, Ohio. (Rubber mallet.)  
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.  
Greene, Tweed & Co., North Wales, Pa. (Plastic.)  
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass.  
Hanson-Whitney Machine Co., 169 Bartholomew Ave., Hartford 2, Conn.  
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.  
Hendry Co., C. J., 27 Main St., San Francisco 5, Calif.  
Henry & Allen, Inc., 2 Wadsworth St., Auburn, N. Y.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.  
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis, Minn. (Impact for buses, trucks, and trailer wheels.)  
Jergens Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio. (For White trucks only.)  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kaslot Mfg. Co., 3927 N. Kedzie Ave., Chicago 18, Ill. (Buckskin fabric.)  
Kennedy Service Tools Inc., P. O. Box 38, Mogadore, Ohio. (Rubber, fibre, plastic.)  
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. (Wheel.)  
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa. (Solid Adjustable.)  
Larson Tool & Stamping Co., Olive St., Attleboro, Mass.  
Lesterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. (Rubber mallets.)  
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Center.)  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Rawhide.)  
Matticks Mfg. Co., 4156 E. Pacific Way, Los Angeles 28, Calif. (Rubber.)  
Mayhew Steel Products, Inc., Shelburne Falls, Mass.  
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio.  
Metal Engineering Co., 134 N. La Salle St., Chicago 2, Ill.  
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.  
Millers Falls Co., Greenfield, Mass. (Brass.)  
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.  
Murchey Machine & Tool Co., 12500 Puritan St., Detroit, Mich. (Solid and Adjustable.)  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
New England Pressed Steel Co., Washington Ave., Natick, Mass.  
New Plastic Corp., 1017 N. Sycamore Ave., Los Angeles, Calif.  
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.



## Diamond T diesels meter the minutes for Motor Cargo's "Midnight Chief"

Motor Cargo's new express run—the Midnight Chief—is timetabled at a tight 24 hours between Akron-Cleveland and Minneapolis-St. Paul. Shippers depend on Motor Cargo and Motor Cargo depends on Diamond T.

### Tilt-Cab Tractors

Power units of the new fleet are Diamond T Tilt-Cab 921C diesels, legal for the entire distance with 38' trailers and 68,000 gross. They give Motor Cargo...

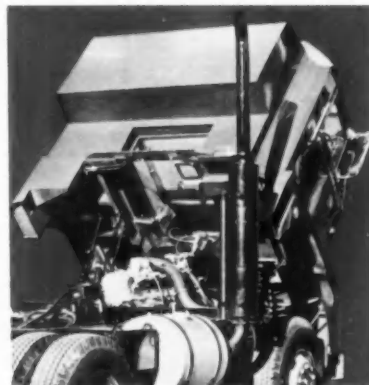
① Compact design—71" BC dimension. ② Light weight—heat-treated alloy steel frame with aluminum crossmembers... cab is all aluminum. ③ Powerful, proven truck engines to match any job—Cummins diesels from 190 HP to

300 HP, or the famous Hall-Scott 590 Spartan for choice of gas or LPG. ④ Tilt-Cab efficiency—unequalled accessibility, sleeper cab if needed. ⑤ Cab that drivers prefer—comfortable, laid out right.

Your job may not require the 921C, but there's a Diamond T "custom-built" to match your particular hauling needs. There's a model for every type of service from two tons up; on highway or off; truck or tractor; gas, diesel or LPG power; conventional or Tilt-Cab.

### See your dealer

For full information, look in the yellow pages of your phone book for your dealer or write Diamond T Motor Car Company, Chicago 23, Illinois.



### Wide open in less than 10 seconds

The counterbalanced cab lifts easily by hand; no power unit, no adjustments, no disconnections. The entire engine area is completely accessible for adjustments or servicing of any kind.

# DIAMOND T TRUCKS

Established 1905



**The Diamond  
is for Quality**

If it's worth a good serviceman's time . . .

Belden 7713

. . . it's worth good automotive wire

Belden 7717 16 Ga.

## Belden PRIMARY WIRE

There is a long-life Belden Wire for every car, truck, bus or tractor requirement. Belden Kits and combinations make installation easy.



# Belden

WIREMAKER FOR INDUSTRY  
SINCE 1902  
CHICAGO

6-7

Battery Cables

Spark Plug Wires

Lighting Wires



## TOOLS—continued

P & C Tool Co., Box G, Milwaukee, Ore.  
 Park Metalware Co., Thorne Ave. & B. R. & P. Tracks, Orchard Park, N. Y.  
 Peck, Stowe & Wilcox Co., 217 Center St., Southington, Conn.  
 Peterson Mfg. Co., De Witt, Neb. (Toggle type.)  
 Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.  
 Polaris Products, Inc., 1006 S. Barclay St., Milwaukee, Wis.  
 Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford, Conn.  
 Quality Tool Corp., New Wilmington, Pa.  
 Reiff & Nester Co., Lykens, Pa.  
 Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.  
 Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.  
 Richards Co., J. A., 908 N. Pitcher St., Kalamazoo 13F, Mich. (Rubber products.)  
 Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.  
 St. Pierre Chain Corp., Frank St., Worcester, Mass.  
 Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill.  
 Smith & Sons, Inc., Seymour, Oakville, Conn. (Sole distributors, John H. Graham & Co., 105 Duane St., New York, N. Y.)  
 Snap-On Tools Corp., 8025-K 28th Ave., Kenosha, Wis.  
 Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio.  
 Stanley Tools, 111 Elm St., New Britain, Conn.  
 Starrett Co., L. S., 1 Crescent St., Athol, Mass.  
 Stevens-Walden, Inc., 475 Shrewsbury St., Worcester, Mass.  
 Stortz & Son, John, 210 Vine St., Philadelphia 6, Pa.  
 Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.  
 Tri-Grip Co., 2053 Twelfth St., Cuyahoga Falls, Ohio.  
 Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Armory St. (Roxbury), Boston, Mass.  
 Truth Tool Co., 711 S. Front St., Mankato, Minn.  
 Tuck Mfg. Co., 74 Ames St., Brockton, Mass.  
 Union Tool Co., 48 E. River St., Orange, Mass.  
 Union Twist Drill Co., Monroe St., Athol, Mass.  
 Union Twist Drill Co., Butterfield Div., Derby Line, Vt.  
 United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York, N. Y.  
 Ushco Mfg. Co., 135 Tonawanda St., Buffalo 7, N. Y.  
 Utica Drop Forge & Tool Corp., 2500 Whitesboro Rd., Utica 4, N. Y.  
 Vaco Products Co., 311 E. Ontario St., Chicago 11, Ill. (Plastic.)  
 Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt.  
 Vichek Tool Co., 3001 E. 87th St., Cleveland, Ohio.  
 Walworth Co., 60 E. 42nd St., New York 17, N. Y.  
 Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.  
 Whitaker Mfg. Co., 400 S. Greene St., Chicago, Ill.  
 Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. (Interchangeable.)  
 Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.  
 Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.  
 Wiss & Son Co., J., 33 Littleton Ave., Newark, N. J.  
 Wood & Spencer Co., 1930 E. 61st St., Cleveland 3, Ohio.  
 Wright Tool & Forge Co., 42 E. State St., Bakerton, Ohio.  
 Zoerman-Clark Mfg. Co., Jackson, Mich.

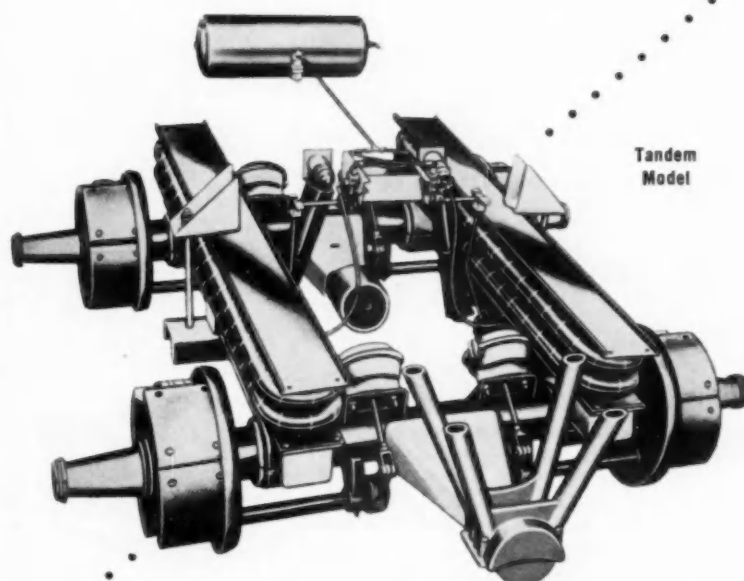
## TOOLS, Ignition

Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn.  
 Blackhawk Mfg. Co., 5326 W. Rogers St., Milwaukee 1, Wis.  
 Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.  
 Cornwell Quality Tools Co., Mogadore, Ohio.  
 Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
 Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.  
 Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.

Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.  
 K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
 Kal-Equip Co., Kalamazoo, Mich.  
 Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.  
 Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.  
 Kennedy Service Tools Co., P. O. Box 88, Mogadore, Ohio.  
 Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
 Metal Engrg. Co., 134 N. LaSalle St., Chicago, Ill.

National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.  
 New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
 Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
 P & C Tool Co., Box 5926, Milwaukee, Ore.  
 Proto Tools, 2009 Santa Fe Ave., Los Angeles, Calif.  
 Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
 Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.  
 Snap-On Tools Corp., 8025-K 28th Ave., Kenosha, Wis.

## HAVE YOU HEARD THE STORY?



Tandem Model

## about YOCAR AiRide?

This is the product that fleet-owners say—

"Saves me maintenance costs"

"Lets me increase payload"

"Gives me better service"

If you haven't heard the story, contact us soon—  
 it's a good one!

YOCAR

Manufacturers of Hoobler self-steering wide-spread tandems

YOUNGSTOWN STEEL CAR CORPORATION

NILES 6, OHIO

## tools

### TOOLS—continued

Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.  
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

### TOOLS, Injector Service

Bacharach Industrial Instrument Co., 7009 Bennett St., Pittsburgh 8, Pa.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.

### TOOLS, Piston Pin Removing and Installing

Clark-Feather Mfg. Co., 116 W. Railroad Ave., Ft. Morgan, Colo.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Master Signal Co., 1005 Sutton St., Howell, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.

Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Zuerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### TOOLS, Piston Ring Compressing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.  
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.  
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Master Signal Co., 1005 Sutton St., Howell, Mich.  
Miller Co., L. B., 394 State St., Stamford, Conn.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
P. & C. Tool Co., Box 5926, Milwaukie, Ore.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.  
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif.  
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.  
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### TOOLS, Piston Ring Groove Cleaning

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.  
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.  
All-Power Mfg. Co., 400 Roosevelt Ave., Montebello, Calif.  
Burd Piston Ring Co., 1401 23rd Ave., Rockford, Ill.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Groove-Rite Tool Co., 40300 Grand River Ave., Farmington, Mich.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Master Signal Co., 1005 Sutton St., Howell, Mich.  
Miller Co., L. B., 394 State St., Stamford, Conn.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill.  
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif.  
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.  
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa.  
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. (Regrooving & cleaning lathe.)  
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### TOOLS, Radiator

(Advertisers Only)  
Lake Auto Radiator Mfg. Co., 5200 W. 130th St., Cleveland 30, Ohio.

### TOOLS, Spring Spreading

Mesco Products, Crete, Nebr.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.



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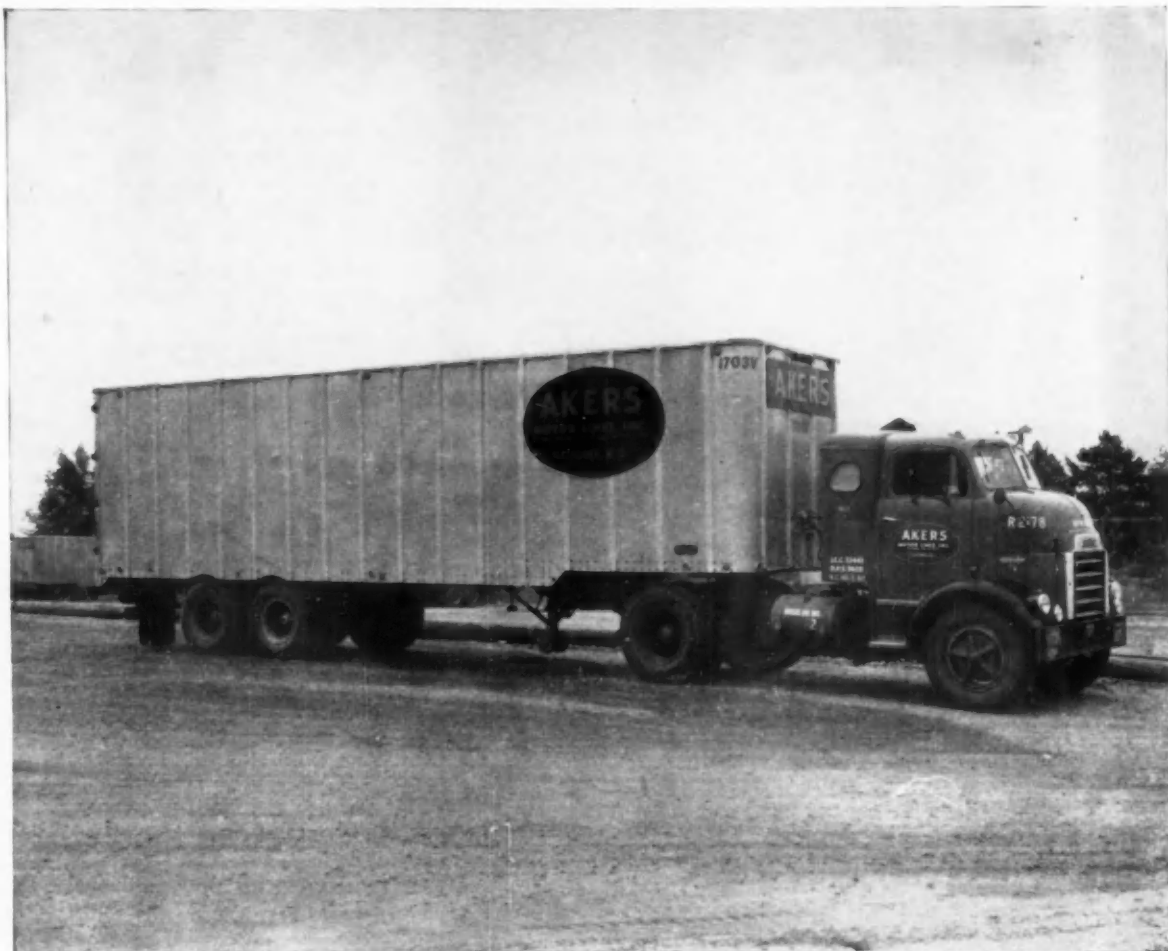
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One of Akers' 40 new GMC DF-862 diesel powered units equipped with Fuller 10-speed R-96 ROADRANGER Transmission.

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To Akers' original fleet of 10 GMC 860 tractors, 40 new GMC DF-862's are now being added...and *all 50* are equipped with Fuller 10-speed R-96 semi-automatic ROADRANGER Transmissions. Says William H. Tomlin, Assistant to the General Manager and Superintendent of Equipment, Akers Motor Lines, Inc., Gastonia, North Carolina: "We are very pleased with the service that the Fuller ROADRANGER Transmissions are giving us. They are a favorite with our drivers."

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- Less driver fatigue— $\frac{1}{2}$  less shifting
- Range shifts pre-selected—automatic and synchronized
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- Transmission weight under the cab—permitting more cargo to be carried on the payload axles

Get full facts on Fuller ROADRANGER Transmissions from your truck manufacturer or truck dealer now!



FULLER MANUFACTURING CO. Transmission Division • Kalamazoo, Mich.  
Bolt Drop Forge Div., Milwaukee 1, Wis. • Shofer Ade Co., Louisville, Ky. (Subsidiary) • Sales & Service, All Products, West. Dist. Branch, Oakland 8, Cal. and Southwest. Dist. Office, Tulsa 3, Okla.



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Whether seldom used or in constant action, doors can affect other plant costs in ways that may escape management's closest scrutiny.

For example, note these cost-cutting features of the door with the interlocking steel slats (originated by Kinneair).

*They coil above the opening!* Whether opened, closed, or in action, Kinneair Rolling Doors waste no usable space anywhere.

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*They save time and labor!* Kinneair's coiling upward action, the key to highest operating efficiency, is also ideal for motorized door convenience — with push-button operation, remote switches, and other controls that meet today's trend to complete automation.

*They cut heating, cooling costs.* Kinneair Rolling Doors (especially when motor operated) promote prompt closing that cuts loss of heat in winter and cooled air in summer.

*They give extra protection.* Kinneair's all-metal curtain assures added protection against fire, wind, weather, vandalism.

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*Extra-heavy galvanizing!* 1.25 ounces of pure zinc per square foot of metal, ASTM Standards, give the Kinneair curtain highest resistance to corrosion.

Built to fit any opening, with motor or manual control, Kinneair Rolling Doors assure the right answer to your needs. Write today for details!

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## Kinneair STEEL Rolling Doors

**KINNEAIR**  
ROLLING DOORS  
Saving Ways in Doorways

## tools

### TOOLS—continued

New Britain Machine Co., Hand Tools Div.,  
South St., New Britain, Conn.  
Wilson, Inc., K. R. Arcade, N. Y.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St.,  
Jackson, Mich.

### TOOLS, Thread Restoring

Armstrong Mfg. Co., 225 Lafayette St., New  
York, N. Y.  
Arseo Mfg. & Sales Co., 451 Tenth St., New  
York 18, N. Y.  
Bonney Forge & Tool Works, 2400 Rockhill  
Rd., N. Alliance, Ohio.  
Buckingham Mfg. Co., Inc., 7 Travis St.,  
Binghamton, N. Y.  
C. & G. Wheel Puller Co., Scio, N. Y.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
(Axle.)  
Excello Accessories Mfrs., Inc., 81 Madison  
Ave., Hempstead, N. Y. (Valve stem.)  
Grayson Tool Co., 1412 W. 2nd St., Hastings,  
Nebr. (axle.)  
Heli-Coil Corp., 591 Shelter Rock Lane, Dan-  
bury, Conn.  
Jaw Mfg. Co., 39 Mulberry St., Reading, Pa.  
(Files, dies.)  
Kennedy Service Tools Co., P. O. Box 88,  
Mogadore, Ohio. (Axle.)  
Kent-Moore Organization, Inc., 1501 S. Jack-  
son, Mich. (axle.)  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Miller Co., L. B., 394 State St., Stamford,  
Conn. (Axle.)  
National Machine & Tool Co., 4077 Page Ave.,  
Jackson, Mich. (Axle.)  
New Britain Machine Co., Hand Tools Div.,  
South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owa-  
tonna, Minn.  
Reiff & Nestor Co., Lykens, Pa.  
Rinck-Mellwaine, Inc., 18 Hudson St., New  
York 13, N. Y. (Axle.)  
Snap-On Tools Corp., 8026-K 28th Ave., Keno-  
sha, Wis.  
Wilde Drop Forge & Tool Co., 2936 Fairmount  
Ave., Kansas City, Mo. (Axle.)  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St.,  
Jackson, Mich. (Axle.)

### TOOLS, Tire

A. B. C. Mfg. Co., 340 N. Front St., Phila-  
delphia 6, Pa.  
Apco Mossberg Co., 187 Lamb St., Attleboro,  
Mass.  
Automotive Equipment Mfg. Co., 11000 S.  
Alameda St., Lynwood, Calif. (Also air  
operated bead breakers.)  
Balloon Tire Mould Co., 627 Ceres Ave., Los  
Angeles 13, Calif.  
Big Four Industries Inc., 6938 Carthage Court,  
Cincinnati, Ohio.  
Bishman Mfg. Co., Route 2, Osseo, Minn.  
Boa Tool Co., Delaware & Main Sts., Penna  
Grove, N. J. (Hydraulic tire demounting;  
sole distributors Jack P. Hennessy Sales  
Co., 12 Depot Square, Englewood, N. J.)  
Branick Mfg. Co., Inc., 2600 Third Ave.,  
 Fargo, N. D. (Removers.)  
Bridgeport Hardware Mfg. Corp., Scofield  
Ave., Bridgeport, Conn.  
Cam Tool Co., 1038 Larkin St., San Francisco,  
Calif. (Tire changes, also bead breakers;  
tire lifters.)  
Chicago Pneumatic Tool Co., 6 E. 44th St.,  
New York 17, N. Y. (air powered bead  
breakers.)  
Costa Co., 3001 5th Ave. S., Fort Dodge, Iowa.  
(Sole distributors Jack P. Hennessy Sales  
Co., 12 Depot Sq., Englewood, N. J.)  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3,  
Ohio.  
Duro Metal Products Co., 2649 N. Kildare  
Ave., Chicago 39, Ill.  
E-Z Lift Mfg. Co., Div. Brummeler Steel  
Products Corp., 1415 Ionia Ave., S.W.,  
Grand Rapids, Mich.  
Goodyear Tire & Rubber Co., 1144 E. Market  
St., Akron 16, Ohio. (Hydraulic.)  
Greb Co., 181 Canton St., Stoughton, Mass.  
Gross Mfg. Co., 1711 California St., Monrovia,  
Calif.  
Herbrand Div., Bingham-Herbrand Corp.,  
Lake & Stone Sts., Fremont, Ohio.  
Ingersoll-Rand Co., 11 Broadway, New York  
4, N. Y. (Pneumatic.)  
Indestro Mfg. Co., 2649 N. Kildare Ave., Chi-  
cago, Ill.  
K-D Mfg. Co., 526 N. Plum St., Lancaster  
Pa. (Probing.)  
Keel & Co., 65 W. Penn St., Philadelphia 44,  
Pa. (Tire rasps.)



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**8** years of

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**ESTABLISH THESE NEW  
INDUSTRY STANDARDS...**

- 1 LOWER OPERATING COSTS
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- 3 LESS DOWN TIME
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DUALOY MEETS EVERY DEMAND FOR

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**UNITED ENGINE & MACHINE COMPANY**

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CAMBRIDGE, MASS.—ASSOCIATED PARTS CORPORATION, 733 Concord Ave.; L. I. CITY, N. Y.—EASTERN WAREHOUSE SERVICE, Inc., 35-13, 37th Ave.; CHARLOTTE, N. C.—L. S. SLOOP, 1727 East 7th St.; ATLANTA, GA.—JOBBER'S SERVICE, 523 Simpson Street, N.W.; CHICAGO, ILL.—AUTOMOTIVE WAREHOUSING, 2645 South Wabash Ave.; ST. LOUIS, MO.—AUTOMOTIVE WAREHOUSING CO., 3150 Locust Blvd.; DALLAS, TEX.—UNITED WAREHOUSES, INC., 9012 Sovereign Row; SAN ANTONIO, TEX.—SAN ANTONIO PARTS WAREHOUSE, 408 South Flores St.; DENVER, COLO.—WAREHOUSE SERVICE CO., 1138 - 8th St.; PHOENIX, ARIZ.—AUTOMOTIVE WAREHOUSING SERVICE, 620 W. Van Buren St.; LOS ANGELES, CALIF.—GENE'S DISTRIBUTING CO., 2720 S. San Pedro St.; PORTLAND, ORE.—AUTOMOTIVE DISTRIBUTING CO., 351 N. W. 12th Ave.; SEATTLE, WASH.—EVERGREEN WAREHOUSE DIST., INC., 620 East Pike St.

## tools

### TOOLS—continued

Ken Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
Kirsap Industries, Inc., Livingston, N. J.  
Lectrolite Corp., Hickory St., Defiance, Ohio.  
Maremont Automotive Products, Inc., 8 Ashland Ave. at 16th St., Chicago 16, Ill.  
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)  
Mesco Products, Crete, Neb.  
New Britain Machine Co., Hand Tool Div., South St., New Britain, Conn.

P & C Tool Co., Box 5926, Milwaukie, Ore.  
Quality Tools Corp., Railroad St., New Wilmington, Pa.  
St. Pierre Chain Corp., Frank St., Worcester, Mass.  
Salsbury Corp., 1161 E. Florence Ave., Los Angeles 1, Calif.  
Schrader's Son, A., Div. of Scovill Mfg. Co., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.  
Speedmaster, Ltd., 3814 Piedmont Ave., Oakland 11, Calif. (Bead breakers; also tubeless tire mounter.)

Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.  
Vichek Tool Co., 3001 E. 87th St., Cleveland 4, Ohio.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.  
Western States Mfg. Co., 811 Main St., Sioux City, Mo.

### TOOLS, Tire Chain Attaching

American Chain Div., American Chain & Cable Co., 454 E. Princess St., York, Pa.  
Hodell Chain Co., Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 3, Ohio.

### TOOLS, Tire Chain Repair

American Chain Div. of American Chain & Cable Co., 454 E. Princess St., York, Pa.  
Columbus-McKinnon Chain Corp., Tonawanda, N. Y.  
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.  
Manley Div., American Chain Co., 1100 E. Princess St., York, Pa.  
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass.  
St. Pierre Chain Corp., Frank St., Worcester, Mass.

### TOOLS, Tire Removing and Replacing

Big Four Industries, Inc., 5938 Carthage Ave., Cincinnati 12, Ohio.  
Bishman Mfg. Co., Osseo, Minn.  
Branick Mfg. Co., Inc., 2600 Third Ave. N., Fargo, N. D.  
Chicago Pneumatic Tool Co., 8 East 44th St., New York 17, N. Y.  
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Trucks; sole distributors J. P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)  
Coats Loaders & Stackers, Inc., 3001 Fifth Ave. S., Fort Dodge, Iowa.  
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind.  
Ken-Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.  
Kerklings-Martin, Inc., San Fernando, Calif.  
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. (Hand or hydraulically operated.)  
Salsbury Corp., Tiremaster Div., 1161 E. Florence Ave., Los Angeles 1, Calif.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

### TOOLS, Tire Spreading

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bishman Mfg. Co., Osseo, Minn.  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.  
Branick Mfg. Co., Inc., 2600 Third Ave. N., Fargo, N. D.  
Coats Co., 3001 Fifth Ave. S., Fort Dodge, Iowa. (Truck; sole distributor J. P. Hennessy Sales Co., 12 Depot Square, Englewood, N. J.)  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Gross Mfg. Co., 1711 California St., Monrovia, Calif.  
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa.  
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)  
Kennedy Service Tools Co., P. O. Box 28, Mogadore, Ohio. (Hand.)  
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.  
Lummis Mfg. Co., 2242 E. Foothill Blvd., Pasadena 8, Calif.  
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.  
May Bros. Mfg. Co., 1211 W. Washtenaw St., Lansing, Mich. (Air operated.)  
Mesco Products, Crete, Neb.  
Miller Mfg. Corp., C. E., 1400 Meridian St., Anderson, Ind.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
P & C Tool Co., Box 5926, Milwaukie, Ore.  
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Pneumatic.)

### TOOLS, Tire Valve Rethreading

Acme Air Appliance Co., 100 Hinsdale St., Glenmore, Brooklyn 7, N. Y.

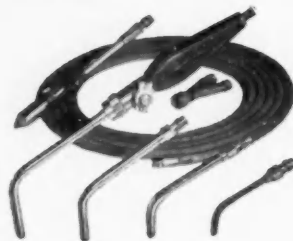
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## Prest-O-Lite

Trade-Mark

### BODY SOLDERING OUTFIT



Outfit (illustrated) comes complete with hose, precision handle, "Y" connection, and interchangeable stems ready for use with standard welding cylinder.

With the four different sized stems and soldering iron in this outfit you can handle any job from the heaviest body soldering down to the smallest spot repairs. Use it as an auxiliary to your standard oxy-acetylene welding and cutting outfit. Just attach the "Y" connection to the outlet of your acetylene regulator and operate both outfits from the same cylinder. The precision torch has a convenient shutoff valve and pilot flame control built into it for economical operation. Ask your local LINDE jobber for a demonstration or write for more details to LINDE COMPANY, Division of Union Carbide Corporation, 30 E. 42nd St., New York 17, N. Y. In Canada: Linde Company, Division of Union Carbide Canada Limited, Toronto.

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**traveling a rough & tough**

**100 million miles a year**

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Another famous fleet protected by FRAM! The Halliburton Oil Well Cementing Company, world's largest oil field cementing firm, works under some of the toughest conditions imaginable. Their fleet and equipment must operate over the roughest kind of terrain, in remote country where break-downs cost real money. That's why they depend on FRAM Filtration to protect their engines.

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## tools

### TOOLS—continued

Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, L. I., N. Y.  
Indestro Mfg. Co., 2849 N. Kildare Ave., Chicago, Ill.  
Kennedy Service Tools Co., P. O. Box 88, Mogadore, Ohio.  
Ken-Tool Mfg. Co., 768 E. North St., Akron 5, Ohio.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Planet Metal Products Corp., 964 Dean St., Brooklyn 98, N. Y.  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
Schrader's Son Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.

### TOOLS, Tube Cutting & Flaring

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.  
Armstrong Bros. Tool Co., 5209 W. Armstrong Ave., Chicago 30, Ill.  
Bonney Forge & Tool Works, 2400 Rockhill Rd., N., Alliance, Ohio.  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.  
Capewell Mfg. Co., 60 Governor St., Hartford, Conn.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill.  
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.  
G. M. Co. Mfg., Inc., 13-08 43rd Ave., Long Island City, N. Y.  
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
J & J Machine Co., 15420 St. Clair Ave., Cleveland 10, Ohio. (Sole distributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.)  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Leader Screw & Mfg. Co., 3805 E. 91st St., Cleveland 5, Ohio.  
Logansport Machine Co., Center Ave., Logansport, Ind.  
Miller Co., L. B., 336 State St., Stamford, Conn.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.  
Penn Brass & Copper Co., 3837 W. 20th St., Erie, Pa.  
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.  
Quality Tools Corp., Railroad St., New Wilmington, Pa.  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.  
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind.  
Zoerman-Clark Mfg. Co., 624 N. Mechanic St., Jackson, Mich.

### TOOLS, Valve Adjusting

F & G Mfg. Co., 305 N.E. Russell St., Portland 12, Ore.

### TOOLS, Valve Grinding or Lapping, (Hand)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Carlson Mfg. Co., 46 N. 2nd St., Mt. Vernon, N. Y.  
Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.  
Cornwell Quality Tools Co., Mogadore, Ohio.



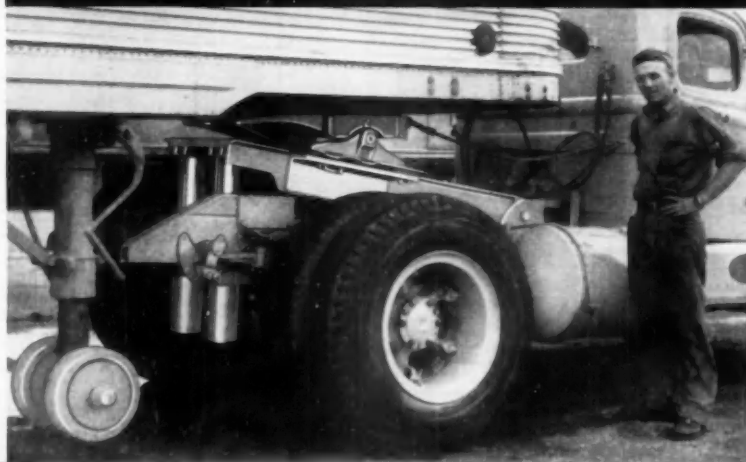


# CEMCO

**Trailer Jockey  
goes "Piggy-back"**

*You can see  
CEMCO's working  
at various terminals  
of these railroads:*

New York Central  
Pennsylvania  
Illinois Central  
Santa Fe  
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Alton  
Southern Pacific  
Milwaukee  
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Also manufacturers of:  
Mobile Machine Shops,  
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Bulk Material Carriers,  
Fifth Wheel Cranes

Not surprising, really, that alert truckers think of modern CEMCO Trailer Jockeys when it's time to load trailers for a "rail ride" instead of a "road ride." At terminals of some of the nation's leading railroads listed here you'll see more and more CEMCO Trailer Jockey's at work.

As shown in the photo just above, the CEMCO puts hydraulic power under your fifth wheel—to the tune of 55,000 lbs. (37,500 lbs.—light duty) up-thrust! Has a 14" travel which is more than ample to get the landing gear up and out of the way for movement around the terminal or along the loading dock. Does in *seconds* what takes *minutes* by the old hand-cranking method.

Put CEMCO Trailer Jockey's under *your* fifth wheel and see the difference! Write for details and where you can see them at work near you! Over half of the country's big-name truckers use CEMCO's.

# EXPERIENCED • INTELLIGENT • CAREFUL WORKMANSHIP

**MAKES STAHL UTILITY BODIES YOUR VERY BEST BUY!**



## MODEL "500"

Line Construction and Maintenance Body has comfortable Crew Compartment, installs on 2-ton and 3-ton chassis. Body available in 11' to 14' lengths. Here is the industry's most modern Line Construction Body.



## MODEL "300-A"

Light Line Construction and Maintenance Body installs on 1-ton and 1½-ton chassis. Available in 9' to 14' lengths. "300-A" is ruggedly built, handles the BIG JOBS, too!



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A 90" Utility Service Body with full-depth Vertical Compartments of large capacity. Shelf arrangement to suit your individual requirements. Available for ½, ¾, 1 and 1½-ton chassis.



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METAL PRODUCTS, INC.  
3490 WEST 140th ST.  
CLEVELAND 11, OHIO

## tools

### TOOLS—continued

Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif. (Air-driven.)  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
G. M. Mfg. Co., Inc., 13-08 43rd Ave., Long Island City, N. Y. (Valve grinding.)  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Vacuum.)  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Lapping.)  
Spraker Mfg. Co., 1411 E. 20th St., Indianapolis 7, Ind.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### TOOLS, Valve Guide Cleaning

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Bacharach Industrial Instrument Co., 200 N. Braddock Ave., Pittsburgh 8, Pa.  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Miller Co., L. B., 336 State St., Stamford, Conn.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
P & C Tool Co., Box 6926, Milwaukee, Ore.  
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. (Brushes, for hand use or with portable drills.)  
Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill. (Hand.)  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.  
United States Electrical Tool Co., 3620 Llewellyn St., Cincinnati 23, Ohio. (For use with electric drills.)  
Wilde Drop Forge & Tool Co., 2986 Fairmount Ave., Kansas City, Mo.

### TOOLS, Valve Guide Installing and Removing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.  
Bishman Mfg. Co., Osseo, Minn.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Hub City Iron Co., 218 1st Ave. S.W., Aberdeen, S. Dak.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Removing.)  
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.  
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Versnick Mfg. Co., Madisonville, Ky.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill.

### TOOLS, Valve Lifting and Spring Compressing

Araco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.  
Associated Producers, Inc., 1603 Fisher Bldg., Detroit 2, Mich.  
Cal-Van Machine Products, Inc., 809 S. Water St., Jackson, Mich.  
Clark-Feather Mfg. Co., 116 W. Railroad Ave., Fort Morgan, Colo.  
Cornwell Quality Tools Co., Mogadore, Ohio.

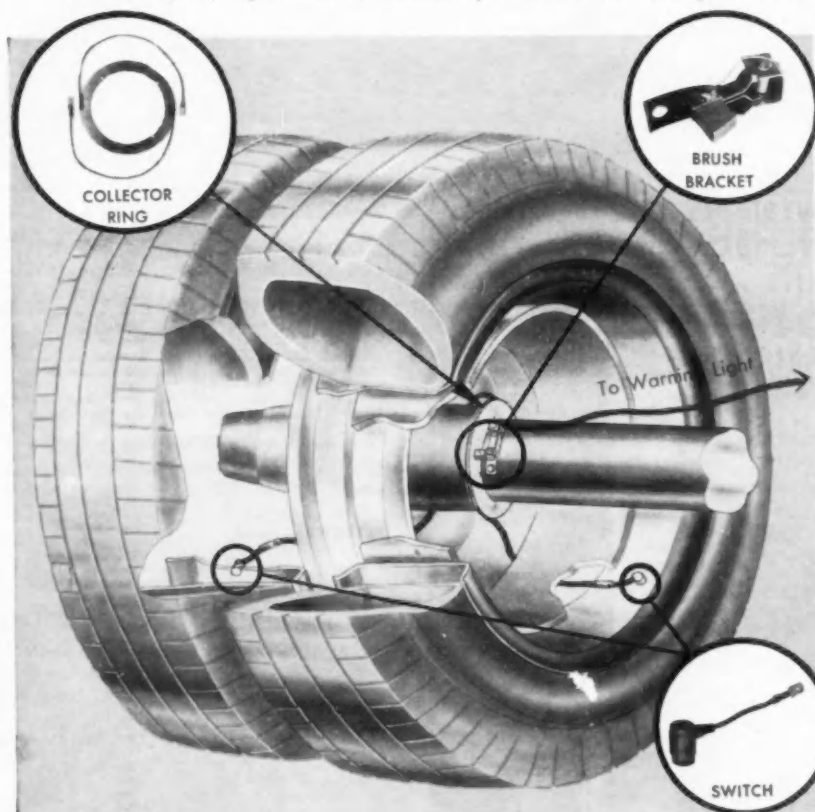
# EXTEND

## TIRE LIFE

with TIRE-LITE!

### THE ALL NEW PREVENTIVE MAINTENANCE LOW TIRE PRESSURE WARNING SYSTEM

Even though today's tires are "better than ever," by proper care and smart maintenance they can give longer service. One major "Blind Spot" in any maintenance program has been under inflation on a moving tire — Tire-Lite was created to remove this blind spot. Now, for the first time, it is possible to constantly monitor the tire pressure of a fast rolling wheel —



#### Here's How:

SWITCH  
— TO —  
COLLECTOR RING  
— TO —  
BRUSH BRACKET  
— TO —  
RED LIGHT ON  
TRACTOR CAB DASHBOARD

#### Simple?

Yes, and effective, too! When this pressure lowers to 50 pounds, the switch activates an electrical current. The signal passes to the brass collector ring, "jumps across" to the stationary brush bracket, and instantly lights the red signal in the cab. The driver stops at once and makes the needed repair.

Make your tire  
maintenance program  
complete with  
**TIRE-LITE!**

## TIRE SERVICE INC.

1210 EXCHANGE BANK BUILDING

P. O. BOX 35041 • DALLAS 35, TEXAS

Without obligation, I would like to have a salesman come to see me.

Name \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Company \_\_\_\_\_

C.11

## tools to trailers

CCJ's Product Directory

### TOOLS—continued

Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 29, Ill.  
Grayson Tool Co., 1412 W. Second St., Hastings, Neb.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Herbrand Div., Ringham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Houser Engrg. & Mfg. Co., 209 E. Spring St., Bluffton, Ind.  
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.  
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.

Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Minnesota Automotive, Inc., 1101 N. Front St., Mankato, Minn.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.  
Quality Tools Corp., Railroad St., New Wilmington, Pa. (Valve lifting.)

Rinck-Mellwaine, Inc., 16 Hudson St., New York 13, N. Y.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.  
Waterloo Valve Spring Compressor Co., 300 Ansbrough Ave., Waterloo, Iowa.  
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.  
Wilson, Inc., K. R., Arcade, N. Y.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

## what's on your mind?

- MASTER CYLINDERS
- WHEEL CYLINDERS
- REPAIR KITS
- CUPS AND PARTS
- BRAKE FLUID
- TOOLS
- EQUIPMENT
- CABLES



makes all of them—  
makes "The Complete  
Brake Parts Line"!



makes them  
BETTER!



makes a BETTER PROFIT  
for you!



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EIS AUTOMOTIVE CORP. MIDDLETOWN, CONN.



### TOOLS, Valve Seat Installing, Removal

Bishman Mfg. Co., Osseo, Minn.  
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Speaker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.

### TOOLS, Valve Seat Refinishing

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.  
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa.  
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 29, Ill.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Keystone Reamer & Tool Co., Millersburg, Pa.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Rottler Boring Bar Co., 513 N. 36th St., Seattle, Wash.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Wilson, Inc., K. R., Arcade, N. Y.

### TOOLS, Wire Stripping

Burndy Corp., Omaton Div., Norwalk, Conn.  
Crescent Co., 20 Central Ave., Pawtucket, R. I.  
General Cement Mfg. Co., 919 Taylor Ave., Rockford, Ill. (Sole distributors Speedix Mfg. Co., 919 Taylor Ave., Rockford, Ill.)  
Holub Industries, Inc., 413 De Kalb Ave., Sycamore, Ill.  
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.  
Martindale Electric Co., 1340 Third Ave., Cleveland 7, Ohio.

### TORCHES, Hand

Bernz Co., Inc., Otto, 280 Lyell Ave., Rochester, N. Y.  
Precision Engineering & Mfg. Co., Saginaw, Mich.  
Pressure Products Corp., 140 N. Dearborn St., Chicago 2, Ill.

TORQUE WRENCHES, See Wrenches, Torque

### TOWERS, Repair or Service

(For use in overhead repairs)  
Crown Steel Products Co., Orrville, Ohio. (Ladders.)  
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio.  
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. (Aerial beams.)  
Memo, 1007 N. W. 36th St., Oklahoma City 3, Okla. (Ladders.)  
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.

TOWING EQUIPMENT. See Hooks, Towing; also Bars, Towing; also Cranes, Service Truck

### TRAILERS, Automobile Transport

Fruehauf Trailer Co., 10904 Harper Ave., Detroit 32, Mich.  
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich.  
Traffic Transport Engrg., Inc., 14301 Schaden Ave., Dearborn, Mich.  
Troyer Corp., 1445 Meylert Ave., Scranton, Pa.  
Whitehead & Kales, 58 Haltiner St., River Rouge 18, Mich.





**REDUCED ROAD DELAY** helps E. & L. Transport Company make deliveries on time—helps them serve their customers better. Nylon cord guards against every major cause of tire-carcass failure—helps eliminate lost time on the road.

**THIS FLEET OPERATOR REPORTS:**

## “50% LESS ROAD TROUBLE WITH NYLON CORD TIRES”

“Cost of tire failures runs high when you measure it in terms of delays to drivers and equipment,” says Walter Cruse, Operations Manager, E. & L. Transport Company, Dearborn, Michigan. “Nylon cord tires have practically eliminated tire failures caused by blowouts. Result: a 50% reduction in road delays due to tire trouble. We get a positive saving, because drivers have fewer delays and fewer calls are needed for outside service.

“E. & L. Transport Company’s fleet of nearly 2,000 vehicles hauls cars, trucks and tractors over every conceivable road surface in all 48 states,” continues Mr. Cruse. “Temperatures range from  $-40^{\circ}$  to over  $110^{\circ}$ . We give tires just about the toughest kind of service they can get, and we think nylon cord tires are the best truck tires made.”

**PROVE TO YOURSELF** that the advantages of nylon cord tires can add up to big savings under your load and road conditions. Ask your dealer about nylon cord tires today. Du Pont makes the tough, long-lasting nylon. Nylon cord tires are available from all tire makers.



BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY



**FOR TRUCKS AND PASSENGER CARS, TOO . . .  
THE STRONGEST, SAFEST TIRES ARE MADE WITH NYLON CORD**

COMMERCIAL CAR JOURNAL, November, 1957



**OVER-ALL ECONOMY.** Fewer tire failures, fewer road delays and fewer costly repairs have meant greater over-all economy for E. & L. Transport Company.



**NYLON REDUCES TIRE DAMAGE** from impact, because tough nylon cord shrugs off road shocks. Nylon has the lasting strength to protect against costly blowouts.

## trailers

CCJ's Product Directory

### TRAILERS, Commercial

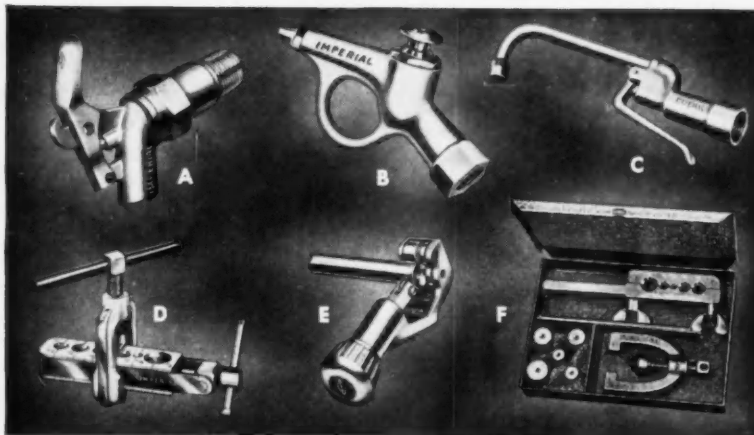
ALF Body Corp., 4400 Clayton Blvd., St. Louis 10, Mo.  
Ace Trailer & Equipment Co., Div. Reliable Automotive Co., H & San Joaquin Sts., Fresno, Cal. (6-wheel, 4-wheel and semi.)  
Adams Engrg. Co., 31711 Salon Rd., Salon, Ohio. (Pole and cable reel.)  
Aerobilt Bodies, Inc., Athens, N. Y.  
Aluminum Body Corp., 1600 Washington Blvd., Montebello, Cal.  
American Body & Trailer, Inc., P. O. Box 1150 Oklahoma City 1, Okla. (Semi.)

American Trailer & Mfg. Co., 12222 S. Woodruff Ave., Downey, Calif.  
Andrews Industries, Inc., 7901 Alabama Ave., St. Louis 11, Mo. (Refrigerated, etc.)  
Anthony Co., Streator, Ill. (Dump and frameless dump.)  
Athey Products Corp., 6681 W. 66th St., Chicago 38, Ill. (Earth moving and highway construction.)  
Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log, pole and semi.)  
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 8, Mo.

Bartlett Trailer Corp., 8080 Archer Ave., Chicago 8, Ill.  
Beall Pipe & Tank Corp., 12005 N. Burkard St., Portland 3, Ore. (Aluminum and steel logging machinery.)  
Bedell Trailer Co., 1506 S. Flores St., San Antonio 4, Tex.  
Birmingham Mfg. Co., 1101 S. 2nd Ave., (P. O. Box 1351), Birmingham, Ala. (Low bed machinery.)  
Black Diamond Trailer Co., Euclid Ave., Bristol, Va.  
Brown Trailers, Inc., Box 54, Spokane 10, Wash. (Aluminum, semi & van full.)  
Brunswick Body Wks., U. S. Route 1, New Brunswick, N. J. (Platform.)  
C & C Trailer & Body Co., 8856 San Leandro St., Oakland 21, Calif.  
Carlisle Machine Works, Box 8, Longview, Tex. (Dump, stock and pick-up.)  
Cemco Industries Inc., Gallion, Ohio. (Bulk cement.)  
Clark Co., B. M., Union, Maine. (Van, rack and low bed custom built.)  
Convento Mfg. Co., Third & Green Sts., Cambridge City, Ind.  
Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.  
Copeco Trailers Div., of Copeco Steel & Engrg. Co., 23500 Sherwood Rd., Detroit 34, Mich. (Steel and aluminum van, flat refrigerated and dump.)  
Cox & Sons, Leon O., Grifton, N. C. (Farm and utility.)  
Dart Truck Co., 2623 Oak St., Kansas City 8, Mo. (Semi, 4-wheel, pole & machinery.)  
Delphi Body Works, 311 S. Washington St., Delphi, Ind.  
Dixie Tallyho Inc., Fairburn, Ga.  
Dorsey Trailers, Inc., Elba, Ala. (Van, stake, platform, pole, machinery, etc.)  
Easton Car & Construction Co., Liberty & Holley Sts., Easton, Pa. (Off-highway for mines and quarries.)  
Eidal Mfg. Co., 250 Woodward Rd. S.E., Albuquerque, N. M. (Semi and full heavy duty off-highway logging, mining, oil field, freight and special purpose.)  
Eight Point Trailer Co., 6100 E. Washington Blvd., Los Angeles 22, Calif. (Special.)  
Eshelman Co., Cheston L., 106 Light St., Baltimore 2, Md. (Two-wheel.)  
Evans Mfg. Co., John, 3 Miles South on Hwy. 15A, Sumter, S. C. (Flat, log, van and special pulpwood.)  
F.A.B. Mfg. Co., 1249 67th St., Oakland 8, Cal. (Full, semi, log and machinery.)  
Fayette Mfg. Co., Box 8, Fayette, Ohio. (Low bed for construction equipment.)  
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Oilfield, logging, low bed, etc.)  
Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala. (Bus and low-bed machinery.)  
Fort Smith Structural Steel Co., P. O. Box 915, Fort Smith, Ark.  
Foster Trailer Co., 2026 Bay St., Los Angeles 21, Calif. (Tilt-bed.)  
Freightliner Corp., 5400 N. Basin Ave., Portland, Ore.  
Fruehauf-Carter Div. Fruehauf Trailer Co., 2832 Winchester Pike, Memphis, Tenn.  
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.  
Gibbs Machinery Co., 1029 Wheat St., Columbia, S. C. (Platform and pole.)  
Gindy Mfg. Corp., Boot Rd. & Chestnut St., Downingtown, Pa.  
Gramm Trailer Corp., 425 E. O'Connor Ave., Lima, Ohio. (Semi-cargo, bulk, transport and tank.)  
Hanson Clutch & Machinery Co., Wall & Miami Sts., Tiffin 15, Ohio. (Low platform.)  
Hell Co., 3000 W. Montana St., Milwaukee 1, Wis. (Steel tank.)  
Hercules Gallon Products, Inc., Gallion, Ohio. (Dump.)  
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis. (Pipe, pole, cable reel, tank, van, oil field, livestock, grain, etc.)  
Hobbs Trailers Div., Fruehauf Trailer Co., 609 N. Main St., Fort Worth 1, Tex. (Pole, dump logging, machinery, cattle, grain, oil field, pipe and refrigerated.)  
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio. (Pole and cable reel.)  
Humes Truck & Trailer Mfg. Co., 907 Franklin Ave., Steubenville, Ohio. (Semi, tandem and four wheel.)  
Ideal Mfg. Co., 1107 S. 7th St., Oskaloosa, Iowa. (2-wheel utility.)  
Kentucky Mfg. Co., 2601 S. Third St., Louisville 8, Ky.

Save time...save work in the shop

## Collect bonus profits with **IMPERIAL** products



**A No. 261-G Imperial Self-closing Drum Faucet** — Metal-to-metal seat. No washers to wear out or cause leakage. Fast flowing. Locks open or closed. Fits 1" opening in standard steel drums. Ea. \$1.07

**B No. 47-A Imperial Air Nozzle** — For compressed air lines. Button control. Oil-proof rubber washer prevents air loss. Has 1/4" Fem. P.T. hose connection. Each . . . \$1.65

**C No. 291-G Imperial Radiator Water Faucet** — Anti-splash. Self-closing. Spring-loaded trigger action. Made of brass and bronze. Each . . . \$3.75

**D No. 300-F Hi-Duty Flaring Tool** — Speedy, single-lever clamping. Makes 45° flares on 3/16, 1/4, 5/16, 3/8, 1/2 and 5/8" O.D. tubing. Each . . . \$6.25

**E No. 274-F Tube Cutter** — Free-wheeling, ball-bearing action. Retractable reamer. Includes spare cutting wheel carried under reamer! For 1/8 to 1" O.D. tubing. Each . . . \$3.95

**F No. 93-FB Double Flaring Tool** — The only sure way to prevent cracking or splitting of steel tubing (such as Bundy or GM) when making 45° flares on 3/16, 1/4, 5/16, 3/8 and 1/2" O.D. tubing. Each . . . \$9.65

In your shop . . . Imperial products are service-engineered to get the job done faster, easier. The ideal way of making satisfied customers . . . building profitable repeat business. Make it a point to equip with Imperial tools and service aids like thousands of aggressive dealers are doing coast to coast.



"Know what I'd do?  
I'd order all six from  
your Imperial Jobber!"

Choose from hundreds of items.  
Write for catalog 125.

**THE IMPERIAL BRASS MFG. CO.**

6300 W. Howard St., Dept. CCJ-117  
Chicago 31, Ill.

In Canada: 334 Louder Ave., Toronto, Ont.

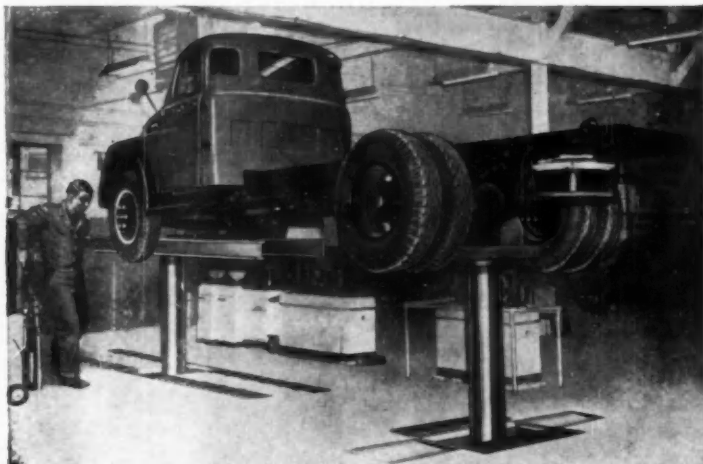
# IMPERIAL

Emblem of Quality

Brass Fittings Flexible Fuel Lines Anti-Freeze and Battery Testers  
Shut-Off Valves Drum Faucets Service Aids Tubing Tools

# YOU GET 3-IN-1 WITH A GLOBE "SLR" HOIST

2-POST HEAVY-DUTY MODEL



Long rail post alone  
lifts cars or short  
wheelbase trucks



Saddle post used for  
front-end service

Heavy, long wheel-  
base trucks accom-  
modated on 2-post  
superstructure

*... most versatile Hoist you can own*

Designed especially for garages and fleet shops servicing trucks, commercial vehicles and passenger cars, Globe SLR 2-Post Hoists help get them back on the road faster. Free-wheel construction provides more underbody working space, speeds repair jobs.

Cylinders can be located to provide for wheelbases from 100" to 240". Each post can be operated independently. Two light trucks or cars can be serviced at one

time, as shown above. Installation may be either flush with floor or non-recessed. Lifting capacity is 18,000, 27,000 or 40,000 pounds depending upon model.

Globe Hoists are different. Globe Hoists give you most for your money . . . mirror-smooth cylinder walls, precision-fitted movable lower guide bearings, long-wear trouble-free packings, rugged superstructures. Globe patented and pioneered "firsts" set the pace in Hoist design.

**1<sup>ST</sup>**

*in design  
in workmanship  
in performance*

**GLOBE**  
THE BEST LIFT  
**TRUCK  
HOISTS**

PLANTS: DES MOINES—PHILADELPHIA—LONG BEACH, CAL.

GLOBE HOIST COMPANY CCI-732-SLR  
E. Mermaid Lane at Queen St., Phila. 18, Penna.  
Please send me full information on Globe Truck  
Hoists that help assure bigger revenue-mile earnings.

NAME \_\_\_\_\_  
COMPANY \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ ZONE \_\_\_\_\_ STATE \_\_\_\_\_



"FRAME CONTACT" HOISTS  
SINGLE POST



TWO POST



FREE WHEEL TYPE  
AUTO HOISTS



ROLL-ON TYPE  
AUTO HOISTS



TWO POST  
AUTO HOISTS



TWO POST  
TRUCK HOISTS



FOUR POST ELECTRIC  
AUTO HOISTS



WHEEL  
DOLLY



TRANSMISSION  
DOLLY

## TRAILERS—continued

Keystone Trailer & Equipment Co., 1601 Guinotte Ave., Kansas City 20, Mo.  
Kingham Trailer Co., 16th & Hill Sts., Louisville, Ky.  
La Crosse Trailer Corp., 418 Gould St., La Crosse, Wis. (Also machinery.)  
Langlois Bros., 717 S. San Pedro St., Los Angeles 14, Calif.  
Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)  
Lyncoach & Truck Co., 443 Chestnut St., Oneonta, N. Y. (Medical, dental, business display, cargo, etc.)

McCabe-Powers Auto-Body Co., 5900 N. Broadway, St. Louis 15, Mo. (Hydraulic dump, pole and utility.)  
McKay Mfg. Co., John A., Dunn, N. C.  
Marion Metal Products Co., Cheney Ave., Marion, Ohio. (Dump.)  
Martin Machine Co., 816 N. East St., Keokuk, Ill. (Heavy duty machinery; sole distributors, Caterpillar Tractor Co., 600 W. Washington St., Peoria 8, Ill.)  
Mastercraft Trailers, Inc., Middlefield St., Middletown, Conn. (Two-wheel utility.)  
Miami Specialties Co., W. Trade Rd., Troy, Ohio.  
Miller Trailers, Inc., 708 3rd St., Bradenton, Fla. (Dry freight refrigerated drop frame

platform and bulk fruit.)  
Miller & Smith Mfg. Co., 500 Phoenix Ave., N. W., Albuquerque, N. Mex.  
Montgomery Body & Trailer Mfg. Co., Route 37 South, Salem, Ill.  
Nabors Co., W. C., Mansfield, La.  
Ohio Body Mfg. Co., New London, Ohio. (Semi.)  
Omaha Standard, 2401 W. Broadway, Council Bluffs, Iowa. (Construction type bottom dump, end dump, livestock & grain.)  
Oren Fire Apparatus Co., 1201 W. Salem Ave., Roanoke, Va. (Fire pumping units.)  
Page & Page Co., 6606 S. W. Curry St., Portland 1, Ore. (Dual axle logging, tilt bed, machinery, wood chip, garbage and packer.)  
Paul Bunyan Co., 1602 Cove Ave., La Grande, Ore.  
Pierce Trailer & Equipment Co., 1806 S. E. Ninth Ave., Portland 14, Ore. (Logging, lumber and machinery.)  
Pointer-Williamette Co., P. O. Box 366, Edmonds, Wash. (Machinery, highway, logging and special types.)  
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill. (For asphalt and other liquids.)  
Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal. (Also logging.)  
Rogers Bros. Corp., Orchard St., Albion, Pa. (Low bed heavy duty.)  
Santeler Bros., 950 E. Main St., Columbus 5, Ohio.  
Spartan Aircraft Co., 1900 N. Sheridan Rd., Tulsa, Okla.  
Spenn & Co., Henry, 1995 Pitkin Ave., Brooklyn 7, N. Y. (Utility, floodlight, oxygen, servicing and mobile motion picture units.)  
Spencer-Saffard Loadcraft, Inc., Augusta, Kan. (Semi oil field, pole, four-wheel, low-bed, etc.)  
Standard Trailer Co., 415 Park St., San Leandro, Calif.  
Steel Products Co., P. O. Box 1159, Savannah, Ga.  
Strick Trailers, Div. of Fruehauf Trailer Co., 5604 N. Broad St., Philadelphia 11, Pa. (Plastic refrigerated and aluminum.)  
Superior Trailer Mfg. Corp., 1125 Georgia St., Indianapolis, Ind. (Aluminum, dry cargo, refrigerated, flat, platform and petroleum transfer.)  
Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 21, Calif. (Semi full low-bed, tilt-bed and petroleum coke.)  
Talbert Trailers Inc., Box 56, Lyons, Ill. (Low-bed and dump.)  
Thomas & Co., Peter, 1820 Main St., Seattle 22, Mass.  
Thompson Trailer Corp., 2 Old Court Rd., Pikesville, Md.  
Timpert Bros., Inc., E. 40th Ave. & York St., Denver 6, Colo.  
Trailco Mfg. & Sales Co., Mill St., Hummel's Wharf, Pa. (Semi.)  
Trailmobile, Inc., 31st & Robertson Aves., Cincinnati 9, Ohio.  
Transport Trailers Inc., 1200 12th St., S. W., Cedar Rapids, Iowa. (Dump low-bed, platform, tilt, etc.)  
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. (Four-wheel, semi and pole.)  
Truck-Trailer Supply Co., 720 W. Broadway, Stafford, Kans. (Pole, grain, low-boy and oil field.)  
Tyler Equipment Co., 1919 Sawyer St., Houston 10, Tex. (Horse, stock, etc.)  
Utility Tool & Body Co., 161 E. 16th St., Clintonville, Wis. (Public utility.)  
Utility Trailer Mfg. Co., P. O. Box F-1, La Puente, Calif.  
Veenema & Wieggers, Inc., 241 N. Tenth St., Paterson 2, N. J. (Aluminum.)  
Vulcan Trailer Mfg. Co., 901 34th St. N., Birmingham, Ala. (Low-bed, platform and aluminum van.)  
Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivers, Calif. (Mailing address, P. O. Box 2473, Los Angeles 54, Calif.) (Semi, four, six-wheel and machinery.)  
Wentworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Also logging and low-bed.)  
Whitehead & Kales Co., 58 Haltiner St., River Rouge 18, Mich.  
Williamson Body & Equipment Co., Ninth & Wall Sts., Ogden, Utah.  
Wilson Trailer Co., 2400 Leach Ave., Sioux City 6, Iowa. (Grain, livestock, van and refrigerated.)  
Winter-Weiss Co., 2201 Blake St., Denver 5, Colo. (Low bed and machinery.)

# WHEN THE "Big Push" IS ON...



## Repair and Replace with LAMSON PLOW BOLTS



They're pushing a lot of earth around these days. And when the new highway program goes into full swing, still more of the earth's "face-lifting" will result.

This means plenty of repair and replacement business on tractors, bulldozers, trenchers and other earth-moving equipment.

Be ready for these repair jobs with Plow Bolts you know will "stand up". Stock, sell or replace with Lamson "1038" Plow Bolts. They've been thoroughly "field-tested" as original equipment by leading manufacturers of farm implements and construction equipment.

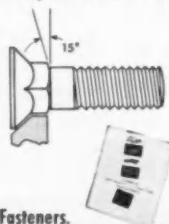
### WHY LAMSON PLOW BOLTS ARE BETTER

The 15° angle between the shoulder and shank of Lamson Plow Bolts results in maximum length of shoulder which provides positive resistance against turning.

### SIZES IN STOCK

#3—Diameters: 3/8" to 1"—Lengths: 1" to 5"  
#7—Diameters: 3/4" to 1"—Lengths: 3" to 6"

Send for this free booklet on Implement and Tractor Fasteners.





**Now . . . A Giant Stride Ahead  
In Modern Fleet Refinishing!**

**DITZLER'S NEW**  
**Speed-Sand**  
**SYNTHETIC PRIMER SURFACER**

**Helps You Turn Out Jobs Better and Faster!**

- Gives you a straight synthetic system for spraying enamel jobs on passenger cars, trucks and buses.
- Fills as it primes, covering surface imperfections and file marks.
- Dries through to an even, smooth finish in half the time . . . Jobs can be sanded in two or three hours quickly and easily without sand scratches.
- Provides firm bond between metal surfaces and finish coat on steel and aluminium.
- Does not lift old enamel surfaces.
- Has outstanding color hold-out . . . Finish coats dry with beautiful even gloss on its smooth, level surface.
- New SPEED-SAND also makes a good non-sanding primer. Just spray one full wet coat, let dry for half an hour, then apply enamel color coat.
- SPEED-SAND is available in White DPS-8, Gray DPS-30, Cream DPS-80, and Red Oxide DPS-70.

*You'll find you can reduce time and labor costs with the new SPEED-SAND Synthetic Primer Surfacers. Try it on your next refinishing job.*

Ditzler Color Div., Pittsburgh Plate Glass Company, Detroit 4, Mich.



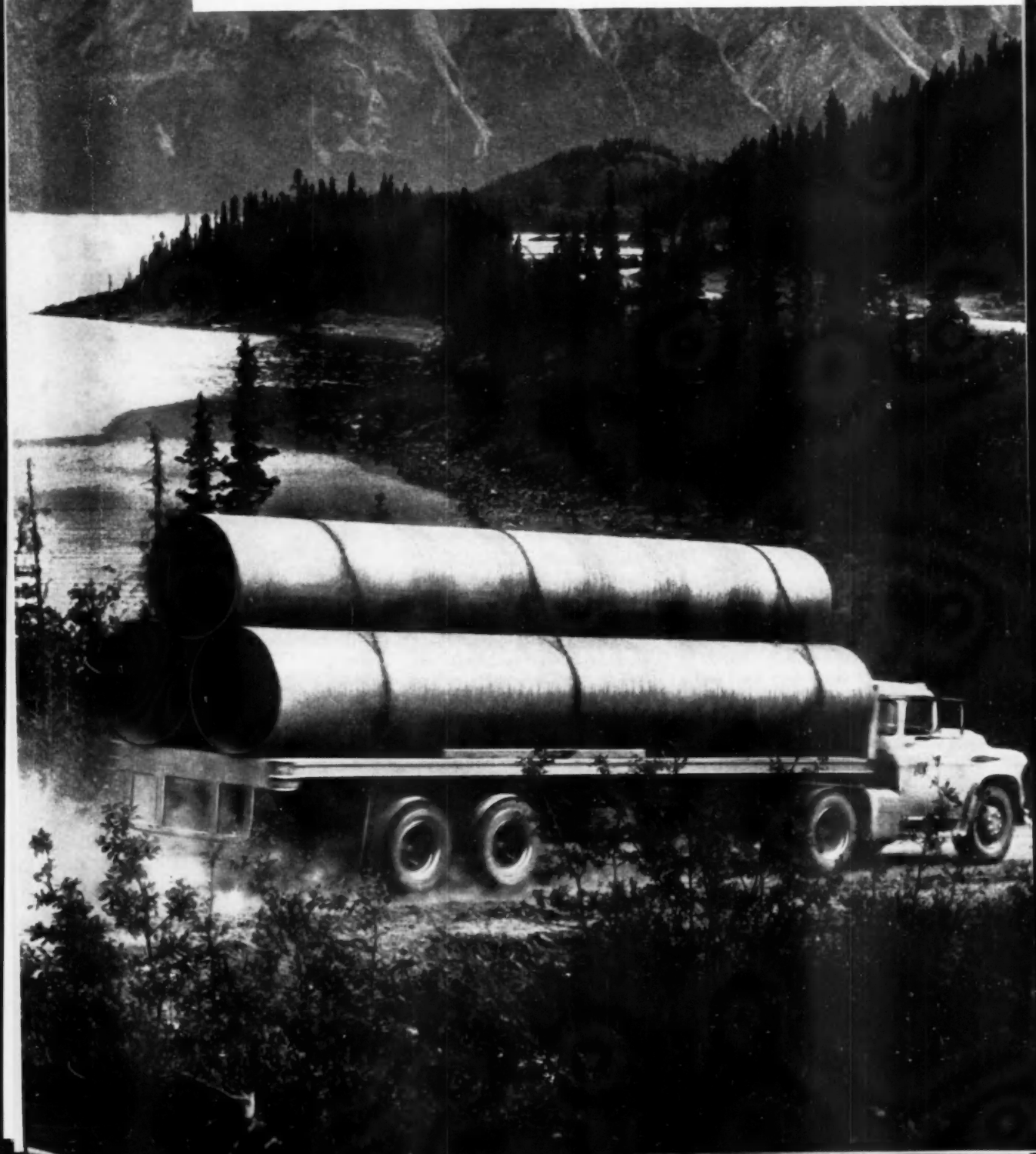
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hard working**



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"ENGINEERED TRANSPORTATION"

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**The Efficiency Of Your Fruehauf Fleet Is Part Of Your Roadbuilding Profit!**

## transmissions to trucks

### TRAILERS—continued

Wolf Engrg. Corp., 1201 Main St., Dallas, Tex.

TRANSMISSION JACKS, See Jacks, Transmission

TRANSMISSION STANDS, See Stands, Engine and Transmission Repair

### TRANSMISSIONS

Allison Div., General Motors Corp., P. O. Box 894, Indianapolis 6, Ind.

Clark Equipment Co., Transmission Div., 1300 Falahee Rd., Jackson 3, Mich. (Truck and bus.)

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. (Bus and truck.)

Detroit Transmission Div., General Motors Corp., Willow Run, Mich. (Mailing address, Ypsilanti, Mich.)

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.

### TRANSMISSIONS, Automatic

Allison Div., General Motors Corp., P. O. Box 894, Indianapolis 6, Ind.

### CCJ's Product Directory

Detroit Gear Div., Borg-Warner Corp., 12345 Kercheval Ave., Detroit 14, Mich.

Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

### TRANSMISSIONS, Auxiliary

Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 56, Calif.

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.

Sherman Products, Inc., 3200 W. 14 Mile Rd., Royal Oak, Mich. (Tractor)

Truckstell Mfg. Co., 1487 Union Commerce Bldg., Cleveland 14, Ohio. (Three speed axle drive power divider.)

Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Overdrive unit.)

Watson Co., H. S. 1816 67th St., Emeryville, Calif.

### TRUCKS, Diesel

American Coleman Co., Littleton, Colo.

Autocar Div. of White Motor Co., Lancaster Ave., Exton, Pa.

Available Truck Co., 2501 Elston Ave., Chicago, Ill.

Brockway Motor Trucks, Div. of Mack Trucks Inc., 106 Central Ave., Cortland, N. Y.

Cline Truck Co., 1116 Campbell St., Kansas City, Mo.

Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.

Corbett Co., Parham St., Henderson, N. C.

Dart Truck Co., 2623 Oak St., Kansas City 8, Mo.

Diamond T Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.

Duplex Div., Warner & Swasey Co., Hazel St., Lansing 4, Mich.

Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio. (Dump, for off-highway.)

Federal Motor Truck Co., 834 N. 7th St., Minneapolis 11, Minn.

Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.

Freightliner Corp., 5400 N. Basin Ave., Portland, Ore.

GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.

Hendrickson Mfg. Co., 8001 W. 47th St., Lyons, Ill.

International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.

Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle 8, Wash.

Mack Mfg. Corp., 1855 W. Front St., Plainfield, N. J.

Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.

Parsons Co., Newton, Iowa. (For off-the-highway service.)

Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.

Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.

Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Rotary snow plows and street flushers.)

Studebaker-Packard Corp., 635 S. Main St., South Bend 27, Ind.

Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.

Ward-LaFrance Truck Corp., Elmira, N. Y.

White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

### TRUCKS, DUMP (Construction & Off-Highway)

Autocar Div., Motor Co., Lancaster Ave., Exton, Pa.

Dart Truck Co., 2623 Oak St., Kansas City 8, Mo.

Duplex Div., Warner & Swasey Co., 830 E. Hazel St., Lansing 4, Mich.

Euclid Div., General Motors Corp., 1361 Chardon Rd., Cleveland 17, Ohio.

Four Wheel Drive Auto Co., E. 12 St., Clintonville, Wis.

GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.

International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.

Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 8, Wash.

Mack Manufacturing Corp., 1355 W. Front St., Plainfield, N. J.



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## KAL-TUNEMASTER . . . A COMPLETE SET OF TUNE-UP TOOLS AT A REMARKABLY LOW PRICE!

Compact, portable tools with the "know-how" built in . . . tools that do the job more quickly, more easily, more accurately . . . a complete set-up that puts the mechanic in the tune-up business "right now!"



Get them from  
your Jobber!

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KALAMAZOO, MICHIGAN

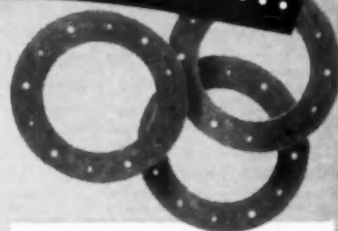




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### FAN BELTS WITH NEOPRENE COVERS

resist high under-hood temperatures, abrasive road dirt, oil and grease. *Pre-stretching* prevents sagging and premature wear.



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manufactured to the same industry-leading standards as Thermoid Brake Blocks and Heavy Duty Linings, provide smooth, positive engagement.



### HEAVY DUTY HYDRAULIC BRAKE FLUID AND PARTS

withstand the toughest conditions. Thermoid HD Fluid meets or exceeds all SAE requirements. Brake Parts and cylinder assemblies are precision engineered for complete dependability and long life.



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provides maximum protection against oil, abrasion, heat... stands up under flexing... resists "ballooning" Gives you more revenue miles between overhauls.



### HEAVY DUTY BRAKE LININGS

compounded under Thermoid's exclusive Dry Mix Process, have a *density* that makes them wear longer in the most severe service.



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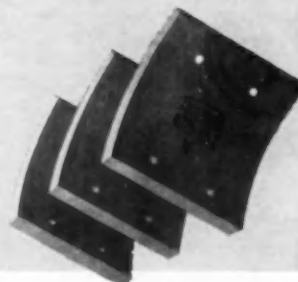
withstands 100° higher outside temperatures than ordinary hose... provides 4 times greater resistance to oil, grease and gas fumes.

Test these Thermoid products on the toughest job in your fleet!



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Brake Linings • Fan Belts • Radiator Hose • Hydraulic Brake Parts and Fluid • Car Mats • Clutch Facings • Thermoid Precision Process Equipment.



### THERMOID BRAKE BLOCKS

are engineered to meet the most rigid stopping tests, while providing maximum mileage, regardless of heat or operating conditions.

# trucks

CCJ's Product Directory

## TRUCKS—continued

Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.  
 Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.  
 Reo Motors Div., White Motor Co., 1331 S. Washington Ave., Lansing, Mich.

## TRUCKS, Fire Apparatus

American-LaFrance Corp., 157 E. LaFrance St. Elmira, N. Y. (Gasoline.)  
 Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.  
 Federal Motor Truck Co., 834 N. Seventh St., Minneapolis 11, Minn.  
 Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.  
 General Fire Truck Co., 25631 Little Mack St., St. Clair Shores, Mich.  
 Giehner Iron Works, Inc., Fred S., 1214 24th St., N. W., Washington 7, D. C.  
 Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.  
 Howe Fire Apparatus Co., 1402 W. 22nd St., Anderson, Ind.  
 Mack Mfg. Corp., 1355 W. Front St., Plainfield, N. J.  
 Maxim Motor Co., 170 Wareham St., Middleboro, Mass.  
 Oren Roanoke Corp., 1201 W. Salem Ave., Roanoke, Va.  
 Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis.  
 Seagrave Corp., 2000 S. High St., Columbus, Ohio.  
 Universal Fire Apparatus Corp., Ft. of Wheatland Ave., Logansport, Ind.  
 Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.  
 Ward-LaFrance Truck Corp., Elmira, N. Y.

## TRUCKS, Gasoline

American-Coleman Co., Littleton, Colo.  
 Autocar Div. of White Motor Co., Lancaster Ave., Exton, Pa.  
 Available Truck Co., 2501 Elston Ave., Chicago, Ill.  
 Brockway Motor Trucks Div., Mack Trucks Inc., 106 Central Ave., Cortland, N. Y.  
 Chevrolet Motor Div. of General Motors Corp., General Motors Bldg., Detroit 2, Mich.  
 Cline Truck Co., 1116 Campbell St., Kansas City, Mo.  
 Cook Bros. Equipment Co., 3334 San Fernando Rd., Los Angeles 65, Calif.  
 Corbitt Co., Parham St., Henderson, N. C.  
 Crown Coach Corp., 2500 E. 12th St., Los Angeles 21, Calif.  
 Dart Truck Co., 2623 Oak St., Kansas City 8, Mo. (Off-highway.)  
 Diamond T Motor Car Co., 4401 W 26th St., Chicago 23, Ill.  
 Diveco Truck Div., Diveco-Wayne Corp., 22000 Hoover Rd., Detroit 5, Mich. (Frequent stop.)  
 Dodge Div., Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich.  
 Duplex Div., Warner & Swasey Co., Hazel St., Lansing 4, Mich.  
 Federal Motor Truck Co., 834 N. 7th St., Minneapolis 11, Minn.  
 Ford Div., Ford Motor Co., 29500 Plymouth Rd., Dearborn, Mich.  
 Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis.  
 GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.  
 Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.

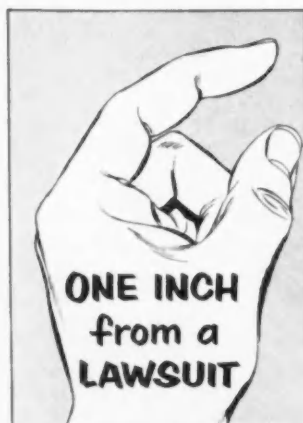
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.  
 Kenworth Motor Truck Co., 8801 E. Marginal Way, Seattle 8, Wash.  
 Mack Trucks Inc., 1355 W. Front St., Plainfield, N. J.  
 Marmon-Herrington Co., Inc., 1511 W. Washington St., Indianapolis 7, Ind. (Four wheel drive.)  
 Milford Crane & Machine Co., 143 Buckingham Ave., Milford, Conn. (Crane-truck.)  
 Oshkosh Motor Truck, Inc., 2300 Oregon St., Oshkosh, Wis.  
 Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 5, Calif.  
 Pontiac Motor Div. General Motors Corp., Pontiac 11, Mich.  
 Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.  
 Sicard Industries, Inc., 753 W. Main St., Watertown, N. Y. (Rotary snow plows and street flushers.)  
 Studebaker-Packard Corp., 635 S. Main St., South Bend 27, Ind.  
 Truckstell Mfg. Co., 1435 Union Commerce Bldg., Cleveland 14, Ohio. (Dual axle drive conversions.)  
 Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, Brooklyn 27, N. Y.  
 Ward-LaFrance Truck Corp., Elmira, N. Y.  
 White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.  
 Willys Motors, Inc., 940 N. Cove Blvd., Toledo 1, Ohio. (Also jeeps, station wagons and utility vehicles.)

## TRUCKS, Hand

Automatic Transportation, Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill. (Motorized.)

CCJ's

Bernard  
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Bernard Gloekler East Co., Robinson and Wall Sts., North East, Pa.  
 Big Joe Mfg. Co., 900 W. Jackson Blvd., Chicago 7, Ill.  
 Clark Co., Geo. P., 35 Canal St., Windsor Locks, Conn.  
 Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.  
 Colson Corp., Elyria, Ohio.  
 Excelsior Plimtruck Co., 796 Atlantic St., Stamford, Conn.  
 Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis.  
 Fairbanks Co., 393 Lafayette St., New York 8, N. Y.  
 Hamilton Caster & Mfg. Co., 1517 Dixie Highway, Hamilton, Ohio.  
 Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.  
 Howe Scale Co., 3 Scale Ave., Rutland, Vt. (Platform.)  
 Kirk & Blum Mfg. Co., 3120 Forrer St., Cincinnati 9, Ohio.  
 Koehring Co., 3026 W. Concordia Ave., Milwaukee 10, Wis.  
 Lansing Co., 603 N. Cedar St., Lansing 8, Mich.  
 Leebaw Mfg. Co., 65 Wayne Ave., Youngstown 2, Ohio.  
 Lewis-Shepard Products, Inc., 125 Walnut St., Watertown, Mass.  
 Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.  
 Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich. (Folding.)  
 Nutting Truck & Caster Co., 1126 W. Division St., Faribault, Minn.  
 Rapids-Standard Co., 100 Rapistan Bldg., Grand Rapids 2, Mich.  
 Rolack Inc., 1350 Kings Highway, Fairfield, Conn.

Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 31, Calif.  
 Sabin Machine Co., 6536 Carnegie Ave., Cleveland 3, Ohio.  
 Sage Equipment Co., 30 Essex St., Buffalo 18, N. Y.  
 Saginaw Products Corp., 68 Williamson St., Saginaw, Mich.  
 Skarnes Engrg. & Supply, Inc., 2907 E. Franklin Ave., Minneapolis 8, Minn.  
 Standard Pressed Steel Co., Jenkintown, Pa.  
 Thomas Truck & Caster Co., 1021 Mississippi River, Keokuk, Iowa.  
 Towmotor Corp., 1226 E. 152 St., Cleveland 10, Ohio.  
 Walker Vehicle & Automatic Transportation Divs., Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill. (Motorized.)  
 Wellington Machine Co., 183 DeWolf St., Wellington, Ohio. (Hydraulic)  
 West Bend Equipment Corp., 216 S. Water St., West Bend, Wis.  
 Western Gear Corp., 2600 E. Imperial Highway, Lynwood, Calif.  
 Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

**TRUCKS, Lift, Diesel**

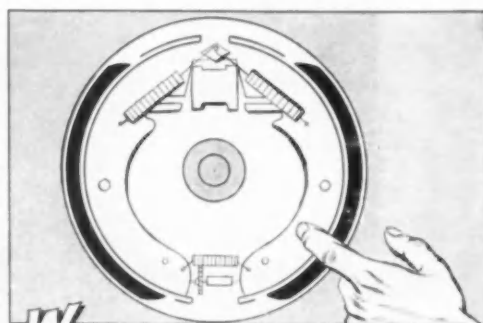
Allis-Chalmers Mfg. Co., Buda Div., 1135 S. 70th St., Milwaukee 1, Wis.  
 Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.  
 Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.

**TRUCKS, Lift, Electric**

Automatic Transportation Co., Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.  
 Baker-Baulang Co., 1250 W. 80th St., Cleveland 2, Ohio. (Electric or gas-electric.)  
 Barrett-Cravens Co., 630 Dundee Rd., Northbrook, Ill.  
 Big Joe Mfg. Co., 900 W. Jackson Blvd., Chicago 7, Ill.  
 Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.  
 Easton Car & Construction Co., Liberty & Holly Sts., Easton, Pa.  
 Economy Engrg. Co., 4511 W. Lake St., Chicago 24, Ill.  
 Elwell-Parker Electric Co., 4205 St. Clair Ave., Cleveland 3, Ohio. (Also gas-electric.)  
 Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.  
 Lewis-Shepard Products, Inc., 1050 Walnut St., Watertown, Mass.  
 Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.  
 Moto-Truc Co., 1953 E. 59th St., Cleveland, Ohio.  
 Portable Lift Trucks Inc., 2861 Sidney Ave., Cincinnati 25, Ohio.  
 Raymond Corp., 151 Madison St., Greene, N. Y.  
 Revolver Co., U. S. Route 1 at 86th St., North Bergen, N. J.  
 Uhrden Inc., 508 Grant St., Dennison, Ohio.  
 Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

**TRUCKS, Lift, Gasoline**

Allis-Chalmers Mfg. Co., Buda Div., 1135 S. 70th St., Milwaukee 1, Wis. (Also L.P. Gas.)



WHEN AN OIL SEAL DOESN'T FIT TIGHT, GREASE SEEPS OUT ONTO BRAKE LINING AND RUINS IT. ONE BRAKE SLIPS, THE OTHER HOLDS—THROWS CAR OFF COURSE ON QUICK STOPS. SOMETIMES A WHEEL CAN EVEN "FREEZE"

**FREE FOLDER**

Tells all about special fleet stocking cabinet and the BIG BONUS oil seal kit.

WRITE FOR YOUR COPY TODAY!

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**ALWAYS REPLACE  
 NEVER RE-USE!**



# ELSTON

cargo space heaters



## Protect your load on the road!

Protect Perishables From Freezing. Equip Your Fleet With X1000 Series Cargo Space Heaters.

*Safe ... Economical ... Clean*

16,000 B.T.U. Output—L. P. gas fired, manual or thermostatically controlled. Portable (with X810 portable kit) or permanently installed. 100% safety shut-off. Complies with I.C.C. cargo heater requirements.

### ELSTON X2000 SERIES

—Cargo Space Heaters for truck vans up to 18'. 9000 B.T.U. A high efficiency heater at the lowest initial cost incorporating all the features of the Elston line.



See Your Elston Distributor Now  
Or Write For Free Brochure P135.

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2223 15TH AVENUE SOUTH  
MINNEAPOLIS 4, MINNESOTA

## trucks to tubing

CCJ's Product Directory

### TRUCKS—continued

American Tractor Corp., Churubusco, Ind.  
Automatic Transportation Co., Div. of Yale & Towne Mfg. Co., 101 W. 87th St., Chicago 20, Ill.  
Baker-Raulang Co., 1250 W. 80th St., Cleveland 2, Ohio. (Also gas-electric.)  
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich.  
Cushman Motor Works Inc., 920 N. 21st St., Lincoln, Nebr.  
Erickson Power Lift Trucks Inc., St. Anthony Blvd. & University Ave., N. E., Minneapolis 18, Minn.  
Gerlinger Carrier Co., Lyle & Birch Sts., Dallas, Ore.  
"H H" Mfrs., 2224 Cerritos Ave., Long Beach 6, Calif.  
Howell Industrial Truck Co., 1083 Erie Cliff St., Cleveland 7, Ohio.  
Hyster Co., 2980 N. E. Clackamas St., Portland 8, Ore.  
Kwik-Mix Co., 235 W. Grand Ave., Port Washington, Wis.  
Lamson Mobilift Corp., 835 S. E. Main St., Portland 14, Ore.  
Lewis-Shepard Products, Inc., 1050 Walnut St., Watertown, Mass. (Gas Electric.)  
Ottawa Steel Div., L. A. Young Spring & Wire Corp., 435½ S. Main St., Ottawa, Kans.  
Peterbilt Motors, Inc., 107th St. & MacArthur Blvd., Oakland 7, Calif.  
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.  
Towmotor Corp., 1226 E. 162nd St., Cleveland 10, Ohio.  
Transitair Truck Co., 5475 N. Lagoon Ave., Swan Island, Portland 11, Ore.  
Yale & Towne Mfg. Co., Yale Materials Handling Div., 11000 Roosevelt Blvd., Philadelphia 15, Pa.

**TRUCK LOADERS (ELEVATING TAILGATE).** See Loaders, Truck (Elevating Tailgate)

### TRUCKS, Rental (Nationwide)

Hertz Drive-Yourself System, 218 S. Wabash Ave., Chicago 4, Ill.  
National Truck Leasing Systems, 23 E. Jackson Blvd., Chicago 4, Ill.

**TRUCK TANKS.** See Tanks, Trailer and Truck Body

### TUBE FITTINGS

Aeroquip Corp., 300 S. East Ave., Jackson, Mich. (Self sealing couplings.)  
Aircraft Fitting Co., 1400 E. 30th St., Cleveland 14, Ohio.  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill.  
Resistoflex Corp., Belleville 9, New Jersey.  
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.  
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

### TUBES, Inner

Armstrong-Norwalk Rubber Corp., Glover Ave., Norwalk, Conn.  
Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.  
Carlisle Tire & Rubber Div., Carlisle Corp., 621 N. College St., Carlisle, Pa.  
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.  
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.  
Dayton Rubber Co., 2342 Riverview Ave., Dayton 1, Ohio.  
Denman Rubber Mfg. Co., Warren, Ohio.  
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.  
Dunlop Tire & Rubber Corp., Sheridan Dr. & River Rd., Buffalo 5, N. Y.  
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.  
Firestone Tire & Rubber Co., 1200 Firestone Parkway, Akron, Ohio.  
Fisk Tire Co., Div. U. S. Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.

Goodrich Tire Co., B. F., 500 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.  
Inland Rubber Corp., 515 Newman St., Mansfield, Ohio.  
Kelly-Springfield Tire Co., P. O. Box 300, Cumberland, Md.  
Laher Tire & Rubber Co. of Calif., 26th & Magnolia Sts., Oakland, Calif.  
Lee Rubber & Tire Corp., Conshohocken, Pa.  
McCreary Tire & Rubber Co., Box 700, Indiana, Pa.  
Mansfield Tire & Rubber Co., 515 Newman St., Mansfield, Ohio.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.  
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.  
Pennsylvania Tire Co., P. O. Box 377, Mansfield, Ohio.  
Polson Rubber Co., Garrettsville, Ohio.  
Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.  
Robbins Tire & Rubber Co., P. O. Box 230, Tusculum, Ala.  
Schenuit Rubber Co., Frank S., Railroad and Union Aves., Baltimore 11, Md.  
Seiberling Rubber Co., Akron 9, Ohio.  
United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y.

### TUBING, Brass and Copper

American Brass Co., 414 Meadow St., Waterbury 20, Conn.  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.  
Chase Brass and Copper Co., 236 Grand St., Waterbury 20, Conn.  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Copper.)  
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.  
Formed Tubes Inc., S. Prairie & Albert Sts., Sturgis, Mich.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. (Copper.)  
Kensico Tube Co., Hubbell's Cross Rd., Mt. Kisco, N. Y. (Copper.)  
Lewin-Mathes Co., 12th St. & Chouteau Ave., St. Louis, Mo. (Copper.)  
Linderme Tube Co., 1500 E. 219th St., Cleveland 17, Ohio. (Copper.)  
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich.  
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.  
National Ignition Mfg. Co., 521 W. 23rd St., New York 11, N. Y. (Copper.)  
Penn Brass & Copper Co., 3827 W. 20th St., Erie, Pa. (Seamless copper.)  
Perfect Parts Inc., 43 W. 23rd St., New York 10, N. Y. (Copper.)  
Planet Metal Products Corp., 964 Dean St., Brooklyn 33, N. Y. (Copper.)  
Precision Tube Co., Church Rd. & Wissahickon Ave., N. Wales, Pa.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
Revere Copper and Brass Inc., 230 Park Ave., New York 17, N. Y.  
Roll Formed Products Co., 3765 Oakwood Ave., Youngstown, Ohio.  
Scovill Mfg. Co., 99 Mill St., Waterbury 20, Conn. (Brass.)  
United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.  
Wells & Co., A. H., 177 E. Aurora St., Waterbury, Conn.  
Wolverine Tube Div. of Calumet & Hecla, Inc., Guardian Towers, Detroit 26, Mich.

### TUBING, Flexible Metallic

Alexander-Tagg Industries, Inc., Jacksonville Rd. & Summit Ave., Hathoro, Pa.  
American Brass Co., American Metal Hose Div., 698 S. Main St., Waterbury 20, Conn.  
Atlantic Metal Hose Co., 308 Dyckman St., New York 34, N. Y.  
Co-Operative Industries, Inc., 100 Oakdale Rd., Chester, N. J.  
D'Nimart Inc., 100 Maple St., Ashburnham, Mass.  
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.  
Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y.



# new LONG LIFE PISTON

**Puts  
CAST IRON WEAR  
IN TOP RING GROOVE**

G and E Wire Insert Piston before machining (left) and after ring grooves are cut (right) showing how the steel wire forms a tough wear-resistant surface on both faces of top ring groove. The ferrous plug molded in the head (for diesel pistons) prevents burning through head and lengthens diesel piston life!

## G and E WIRE INSERT PISTONS

- ★ **Low initial cost—  
Low cost per mile**
- ★ **Amazing increase  
in piston life**
- ★ **Maintains  
new engine power  
and performance**

Here's an entirely new piston design that combines all the advantages of aluminum alloy pistons with the long life of steel in the top ring groove. No noticeable increase in weight. G and E Wire Insert Pistons are real top performers at **LOW COST**—barely more than ordinary alloy pistons!

This Gillett & Eaton exclusive steel wire insert cuts top ring groove wear and greatly increases mileage between overhauls.

You get longer piston wear at lower cost because G & E Wire Insert Pistons have a pre-shaped steel wire cast right in the piston wall where the top ring is located. When the grooves are machined, this tough wire is cut, exposing the closely spaced hard surfaced bearing points on top and bottom faces of the groove.

GET THE G AND E WIRE INSERT STORY—Ask your White Machine Works "Arrowhead" representative or write to Gillett & Eaton, Inc.

**GILLETT AND EATON, INC.** 802 DOUGHTY STREET • LAKE CITY, MINN.



ESTABLISHED 1868

# Here are 4 good reasons for using Champion Spark Plugs in all your vehicles

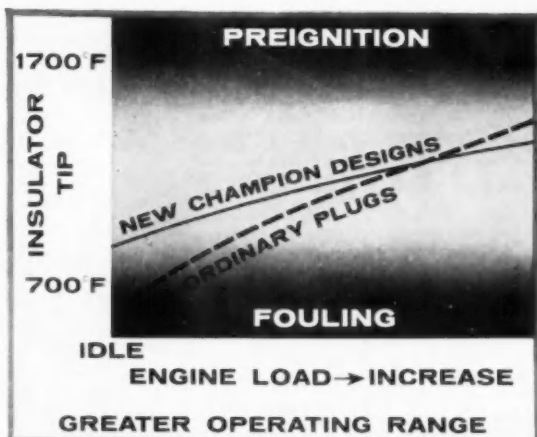


## Reason No.1

**EXCLUSIVE TECHNICAL HELP**—Your Champion representative offers your mechanics an exclusive tool for improving ignition performance. It's the "know-how" that only Champion has. It comes from Champion's position as the world's largest research and engineering organization devoted exclusively to spark plugs—and from Champion's steadily growing fund of fleet ignition experience. This information can help cut *your* ignition costs. If you need it, contact your Champion representative, or write Champion in Toledo.

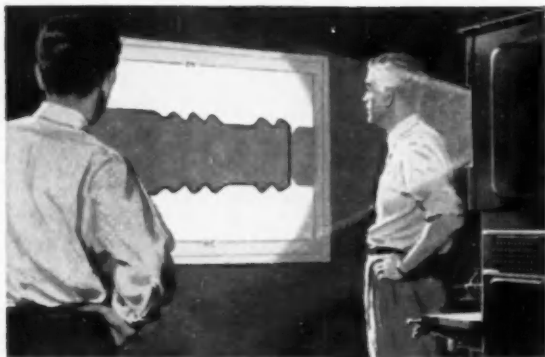
CHAMPION SPARK PLUG COMPANY • TOLEDO 1, OHIO





## Reason No.2

**WIDER OPERATING RANGE**—This graph (above) shows how a Champion Spark Plug gives you a wider range between trouble-causing operating extremes. Hotter in the low power range to fight fouling, Champions run cooler at peak engine loads—giving greater protection against preignition.



## Reason No.3

**PRODUCT UNIFORMITY**—A special optical projector throws a silhouette of a Champion ceramic insulator, enlarged 20 times, against an engineering comparator chart. They must match exactly. This constant testing, from raw material to finished product, means that every Champion meets the same exacting standards, delivers the same fine performance.



## Reason No.4

### SPECIFIC-ENGINE

**DESIGN**—Champion engineers design spark plugs to fit *your* fleet . . . to deliver maximum performance from *your* engines—whatever their make or model. And Champion has a heat range perfectly fitted to *your* fleet's operating conditions. Why not make your fleet 100% Champion?



For all engines . . .

**CHAMPION**

SPARK PLUGS

## CHAMPION SERVICE TIPS for better engine performance

### AUTOMATIC CHOKE CONTROL HEAT TUBE

Several manufacturers' service bulletins have been noted recently warning that failure of the heat tube can permit carbon deposits to build up around the automatic choke mechanism. This in turn can result in hard starting, stalling and possible backfire.

In the event that automatic chokes are not functioning properly, examine the components for abnormal accumulation of carbon, corrosion or burning. If engine exhaust has been entering the assembly, replace the tube following manufacturers' instructions.

### ENGINE LUGGING MUST BE AVOIDED

Increased maintenance costs and even expensive repair bills have often been traced to individual driving habits. Chief culprit is the practice of lugging an engine or not downshifting promptly when engine speed drops on a long pull. This can be especially harmful in a modern short-stroke, high-compression engine where full throttle operation at sustained low engine speed may cause overheating and lack of lubrication.

In extreme cases, the piston rings will break through the cylinder wall oil film, establishing a scuffing condition. Detonation and preignition may result, causing spark plug insulator fracture and other more serious engine damage.

With these facts in mind, many fleet operators have found that proper driver training will lower costs nearly as much as correct shop practices.

## tubing

CCJ's Product Directory

### TUBING—continued

Flexico Products Inc., Middlesex Ave. & Factory St., Metuchen, N. J.  
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill.  
Forayth Metal Goods Co., Elm St., East Aurora, N. Y.  
Gabriel Co., 1523 E. 45th St., Cleveland 1, Ohio.  
International Metal Hose Co., Ashford Ave., Bellevue, Ohio.  
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.

Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.  
Revere Copper & Brass Inc., 230 Park Ave., New York 17, N. Y.  
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.  
Titeflex, Inc., Hendee St., Springfield, Mass.  
Universal Metal Hose Co., 2133 S. Kedzie Ave., Chicago 23, Ill.

### TUBING, Loom

Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill. (Asbestos.)

Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill.  
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind.  
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.  
Velvac, Inc., 3530 W. Pierce St., Milwaukee 15, Wis.

### TUBING, Oil and Gasoline Line

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich. (Flexible.)  
Accurate Products Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.  
American Brass Co., American Metal Hose Div., 698 S. Main St., Waterbury 20, Conn. (Flexible, with fittings.)  
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill. (Flexible.)  
Andrews Parts Mfg. Co., 32-70 31st St., Long Island City 5, N. Y.  
Atlantic Metal Hose Co., 308 Dyckman St., New York 34, N. Y. (Flexible.)  
Avon Tube Div. of Higbie Mfg. Co., Charles St., Rochester, Mich.  
Bundy Tubing Co., 8109 Jefferson Ave., Detroit 14, Mich. (Solid.)  
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.  
Coronet Parts Mfg. Co., 883 Elton Ave., Brooklyn 8, N. Y. (Flexible and solid.)  
Danielson Mfg. Co., Danielson, Conn. (Nylon.)  
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.  
Edelmann & Co., E., 2232 Logan Blvd., Chicago 47, Ill. (Flexible.)  
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. (Flexible.)  
Excello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Flexible.)  
Flexonics Corp., 1315 S. Third Ave., Maywood, Ill. (Flexible.)  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Imperial Brass Mfg. Co., 1209 W. Harrison St., Chicago 7, Ill. (Flexible.)  
Loock & Co., R. J., 348 N. Gay St., Baltimore, Md.  
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. (Flexible non-metallic, with fittings.)  
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.  
Penn Brass & Copper Co., 3827 W. 20th St., Erie, Pa. (Solid.)  
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa.  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y. (Flexible.)  
Preferred Electric & Wire Co., Bush Terminal Bldg. #8, Brooklyn 32, N. Y.  
Quaker Rubber Co., Tacony & Comly Sts., Philadelphia 24, Pa.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Resistoflex Corp., Woodland Rd., Roseland, N. J. (Flexible, with fittings.)  
Steel and Tubes Div., Republic Steel Corp., 224 E. 151st St., Cleveland 8, Ohio.  
Titeflex, Inc., 500 Frelinghuysen Ave., Newark 6, N. J. (All-metal flexible.)  
United Wire & Supply Co., 1497 Elmwood Ave., Providence 7, R. I.  
Weatherhead Co., Fort Wayne Div., 128 W. Washington Blvd., Fort Wayne, Ind. (Flexible non-metallic.)  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Wolverine Tube Div. of Calumet & Hecla, Inc., Guardian Towers, Detroit 26, Mich.

### TUBING, Windshield Wiper

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.  
Bowling Green Rubber Co., 4143 Monroe St., Toledo 13, Ohio.  
Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Crown Products Co., 5722 S. 77th St., Ralston, Neb.  
Dallas Mfg. & Sales Co., Box 7181 Dallas, Tex.  
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.  
Goodrich Tire Co., B. F., 500 S. Main St., Akron 18, Ohio.

## YOU get More for YOUR Money in a *Curtis* Air Compressor



For complete  
information  
write for  
Catalog #C-100.

### and here's why!

- 1 Positive Unloader unloads compressor when-ever it stops . . . Not affected by power failure.
- 2 Fully enclosed Vacuum Type Crankcase . . . keeps oil in—keeps dirt out.
- 3 Other Important Features—Timken Main Bearings; Adjustable, Centro-Ring, Pressure Oiling; Curtis-Built ASME Tank with ASME Safety Valve.
- 4 And 103 years of manufacturing experience "built-in".

CAN COUNT ON  
REMEMBER . . .  
103

**Curtis**  
OUR 103rd YEAR

**MANUFACTURING CO.  
PNEUMATIC DIVISION**

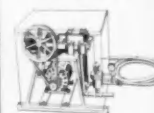
1970 Kienlen Ave.

St. Louis 20, Mo.

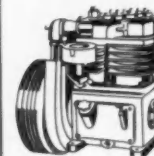
CM-19



AUTO LIFTS  
SINGLE AND  
TWO POST



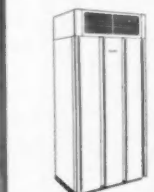
HIGH PRESSURE  
CAR WASHER



INDUSTRIAL  
AIR COMPRESSORS



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AIR CYLINDERS



PACKAGED AND  
REMOTE AIR  
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EQUIPMENT



# A COMPLETE LINE OF SIGNAL FLASHERS *for Fleets*

"UP" designation means flasher is interchangeable with flashers of the same part number series.



## TUNG-SOL SIGNAL FLASHERS

### 6-Volt Passenger Car and Light Truck

UP229D  
P229D  
A229S

### 12-Volt Passenger Car and Light Truck

P273D  
AP273  
AP273V

### 12-Volt Heavy Duty Truck

UP241D  
P241D  
501 (for flashing 3 lights on  
either side)

Whether your fleet is passenger cars, light trucks or the big jobs, the line of Tung-Sol Flashers contains every type you need for signal system service.

Tung-Sol Flashers are the same flashers the overwhelming majority of vehicle manufacturers specify as initial equipment.

Insure the signalling reliability and dependability your fleet must have. Replace with Tung-Sol Flashers!

Tung-Sol Electric Inc., Newark 4, New Jersey.

## TUNG-SOL SIGNAL FLASHERS

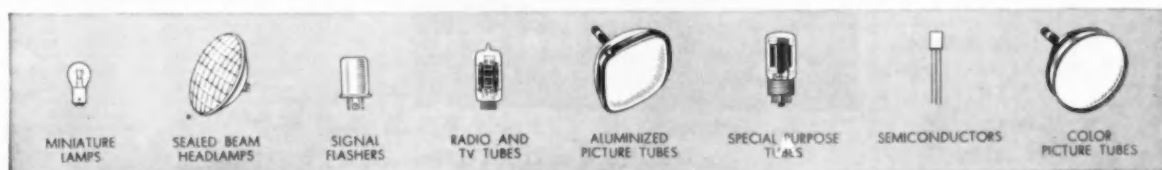
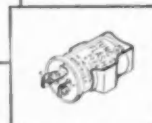


Bracket is attached  
in place of special  
flasher mounting.

Bracket holds  
flasher vertically—



—or horizontally.



## turbochargers to universal joints

### TUBING—continued

Kravex Mfg. Corp., 273 Van Sinderen Ave., Brooklyn 7, N. Y.  
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.  
Quaker Rubber Corp., Tacony & Comly Bts., Philadelphia 24, Pa.  
Raybestos Div., Raybestos-Manhattan Inc., 75 E. Main St., Stratford 2, Conn.  
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.  
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.  
Victor Instrument Mfg. Co., 83 W. 60th St., New York 23, N. Y.

Warehouse Distributing Co., 2810 N. 19th St., Philadelphia 40, Pa.

TUNE-UP EQUIPMENT, See Analyzers

TUNE-UP OIL, See Oils, Upper Cylinder

### TURBOCHARGERS

(Advertisers Only)

Garrett Corp., AiResearch Industrial Div., 9851 Sepulveda Blvd., Los Angeles 45, Calif.

## CCJ's Product Directory

### UNDERCOATINGS, Chassis and Body

Anderson-Pritchard Oil Corp., 1000 Liberty Bank Bldg., Oklahoma City 2, Okla.  
Battenfield Grease & Oil Corp., 3148 Hoonoke Rd., Kansas City 8, Mo. (Underbody.)  
Borden Co., Chemical Div., 350 Madison Ave., New York 17, N. Y.  
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.  
Carey Mfg. Co., Philip, Lockland, Cincinnati 15, Ohio. (Underbody.)  
Daubert Chemical Co., 333 N. Michigan Ave., Chicago 1, Ill.  
Ditaler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.  
Ensign Products Co., 8528 E. 76th St., Cleveland 5, Ohio.  
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.  
Gibson-Homans Co., 2366 Woodhill Rd., Cleveland, Ohio.  
Hollinshead Corp., R. M., 840 Cooper St., Camden, N. J.  
Hutson Div. of Gibson-Homans Co., Railroad & Institute Sts., Conyers, Ga. (Underbody.)  
Insul-Mastic Corp. of America, 7750 W. 61st Place, Summit, Ill. (Mastic.)  
Keystone Asphalt Products Co., 101 E. Ontario St., Chicago 11, Ill.  
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark.  
Moore & Co., Samuel, Mantua, Ohio.  
Mortell Co., J. W., 550 N. Hobbie Ave., Kankakee, Ill. "Insulmat."  
Nox-Rust Chemical Co., 2429 S. Halsted St., Chicago 8, Ill.  
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa.  
Pioneer Chemical & Mfg. Co., 1826 Columbus Rd., Cleveland 13, Ohio.  
Pioneer Latex & Chemical Co., Lincoln Blvd., Middlesex, N. J.  
Pioneer Products, Div. of Witco Chemical Co., 75 E. Wacker Dr., Chicago 1, Ill.  
Presstite-Keystone Engrs. Products Co., 8900 Chantreau St., St. Louis 10, Mo.  
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich.  
Steelcote Mfg. Co., 8418 Gratiot Ave., St. Louis 3, Mo.  
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa.  
Silvercote Products, Inc., 161 E. Erie St., Chicago 11, Ill.  
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo. (Underbody.)  
Vibradamp Corp., 4401 Page Ave. Rd., Jackson, Mich.

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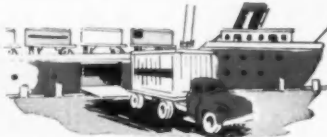
### MORE JOBS HANDLED BETTER BY BARTLETT



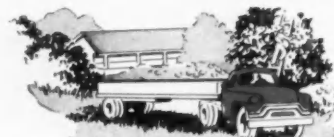
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House Moving—5th Wheel lifts house up  
and helps to roll on new foundation



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economically without this help.



Dumping Oranges from Groves into  
Washing Pits—materially cuts costs



Lift Boom Mounted on 5th Wheel can  
Boom or Lift any ordinary Tractor and tow in

### SIMPLICITY IN MOUNTING

Can Be Done in

Any Good Truck Shop

Unit complete with P.T.O., Pump,  
Shaft-Valves. With special Heavy  
Duty 5th Wheel.

Load is not carried on cylinders  
but rolls in track  
cuts line pressure and  
ring replacements

**OUTLIVES ANY OTHER  
2 TO 1**

### BARTLETT HYDRAULIC 5TH WHEEL



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Ready to Mount

**Bartlett**

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VIRGINIA 7-1160

### UNDERCUTTERS, Mica

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.  
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.  
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. (Portable electric.)  
International Products & Mfg. Co., 1452 S. Michigan Ave., Chicago 5, Ill.  
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Portable electric.)  
Motoraide Corp., 2400 Emerald St., Philadelphia 25, Pa.  
Nasa Tool Mfg. Corp., Locust Corner Rd., Amelia, Ohio.  
Newman Machine Co., 38 James St., East Providence, R. I. (Hand and electric.)  
Red Devil Tools, Coit St., Irvington 11, N. J.  
Rite Tool, Inc., 136 Pocasset St., Fall River, Mass.  
Weidenhoff Corp., Algona, Iowa.  
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis.

UNIFORMS, See Fabrics, Uniform

### UNIVERSAL JOINTS

(See also Shafts, Propeller)

Accurate Products, 720 E. Washington St., Indianapolis 3, Ind.  
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill.  
American Automotive Products Co., 1818 S. Wabash Ave., Chicago 16, Ill.  
Bashian & Sons Co., Henry, 28093 Pontiac Trail S., Lyon, Mich.  
Bendix Products Div., Bendix Aviation Corp., South Bend 20, Ind.  
Blood Brothers Machine Co., Div. Rockwell Spring & Axle Co., Allegan, Mich.  
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.  
Cleveland Steel Products Corp., 16025 Brookpark Rd., Cleveland 11, Ohio.

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READ HOW ONE TRUCKER CUTS COSTS  
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WITH PENETRED . . .

## HERE'S HOW THEY WORK



CONTINUOUS PENETRED THERMO DUCTOR  
COILS MOULDED IN THE TREAD QUICKLY  
FORM THOUSANDS OF STEEL GRIPPING  
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AVAILABLE IN RECAPS THROUGH  
YOUR LOCAL SUPPLIER . . .

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STEFFKE FREIGHT COMPANY  
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WAUSAU, WISCONSIN

January 3, 1956

Penetred Corporation  
104 West Arnold Street  
Marshfield, Wisconsin

Attention: Robert Felker

Dear Sir:

I thought you might be interested in our experience with "Goodyear Steel Grip Tires" and "Penetred-Kur" recaps, both using Penetred wire.

We find great improvement in traction over standard highway treads. With this improved traction on ice, we find these tires eliminate many service calls to get trucks that are stuck on hills or alleys and at loading docks, and also eliminates the need for drivers to look for a source of sand or ashes when stuck. Many of our drivers ask us to put these tires on their tractors. To obtain greater cornering force, we use "Goodyear Steel Grip" on the front wheels of six-wheel tractors and short wheel base cab-overs to prevent the front ends from sliding out on turns, particularly on wet asphalt and ice. This has been very successful.

Fewer repairs are needed to the carcass of these tires when recapping. The wire seems to stop the sharp stones that cut into the cords and damage the carcass. Mileage wise, these tires are equal to, or better than the standard tire. From the additional traction, we anticipate a considerable, intangible saving in the form of improved service, labor savings and accidents prevented.

Yours very truly,

STEFFKE FREIGHT COMPANY

*William Liles*

WG:hb

"I'm Penny"

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YES! I'd like to see actual films of University conducted tests of Penetred Steel Coil Truck tires under brutal weather conditions. Please send a loan print of your color-sound movie which we will return after viewing.

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TRADE MARK

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As the sole refrigerant, rely on Pureco "DRY-ICE" for safe, dependable, dry-cold. Eliminates maintenance, light-weight—more pay load. Several types of "DRY-ICE" bunkers available.

## AUXILIARY REFRIGERATION

Use "DRY-ICE" to supplement mechanical units and eliminate "hot spots".

## EMERGENCY REFRIGERATION

Use "DRY-ICE" when mechanical parts break down. No spoilage. It handles easily and is quickly available through the Pureco network of depots.

You can count on Pureco "DRY-ICE"... and Pureco service. Pureco Technical Sales Service will be glad to study your particular refrigeration problems and help you solve them.

Remember—over 100 Pureco depots from coast to coast are your assurance of dependable deliveries of "DRY-ICE".

Pureco distribution points are all listed in a handy booklet—call or write today for your copy.



## Pure Carbonic Company

A division of Air Reduction Company, Incorporated

Nationwide "DRY-ICE" service-distributing stations in principal cities

GENERAL OFFICES: 150 EAST 42nd STREET, NEW YORK 17, N. Y.

AT THE FRONTIERS OF PROGRESS YOU'LL FIND AN AIR REDUCTION PRODUCT

## valves

### UNIVERSAL JOINTS—continued

Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.  
Detroit Bevel Gear Co., 8130 Jos. Campeau Ave., Detroit 11, Mich.  
Detroit Universal Div., Chrysler Corp., 6455 Kingsley Ave., Dearborn, Mich.  
Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich.  
Imco Mfg. & Sales Co., 10 E. Lafayette Ave., Baltimore 2, Md.  
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.  
Maday Body & Equipment Corp., 575 Howard St., Buffalo 6, N. Y.  
Mechanics Universal Joint Div., Borg-Warner Corp., 2030 Harrison Ave., Rockford, Ill.  
Merit Products Co., 121 W. Florence St., Los Angeles 3, Calif.  
Morse Chain Co., Ithaca, N. Y.  
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill.  
Muncie Parts Mfg. Co., 2601 S. Jefferson, Muncie, Ind.  
Neapco Products, Inc., South & Cross Sts., Pottstown, Pa.  
New Process Gear Co., 500 Plum St., Syracuse, N. Y.  
Parts Mfg. Co., 311 W. 66th St., N. Y. 23, N. Y.  
Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.  
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.  
Rockwell Spring & Axle Co., 843 Fourth Ave., Coraopolis, Pa.  
Root Co., B. M., Prospect & Sherman Sts., York, Pa.  
Saginaw Steering Gear Div., General Motors Corp., 3900 Holland Rd., Saginaw, Mich.  
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.  
Stow Mfg. Co., 445 State St., Binghamton, N. Y.  
Western Automotive Co., 2300 S. Parkway Chicago 16, Ill.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
Williams Engineering Corp., 224 Park Ave., Baltimore, Md.

UPPER CYLINDER LUBRICANTS, See Oil.  
VALVE CLEANING TOOLS, See Tools, Valve  
Upper Cylinder  
Guide Cleaning  
VALVE GRINDING COMPOUND, See Compounds, Valve Grinding  
VALVE GRINDING HAND, See Tools, Valve Grinding and Lapping  
VALVE GUIDES, See Guides, Valve  
VALVE GUIDE INSTALLING AND REMOVING TOOLS, See Tools, Valve Guide Installing and Removing  
VALVE REFACERS, See Refacers, Valve  
VALVE SEAT GRINDERS, See Grinders, Valve Seat  
VALVE SEAT INSERT, See Seats, Valve  
VALVE SEAT INSTALLING, See Tools, Valve Seat Installing  
VALVE SPRING TESTERS, See Testers, Valve and Clutch Spring  
VALVE TOOLS, See Tools, Valve

### VALVES, Air Brake

Air Brake Accessories Inc., 250 N. Western Ave., Chicago 12, Ill. (Breakaway.)  
Aircraft Products Div., Manning, Maxwell & Moore, Shelter Rock Lane, Danbury, Conn.  
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.  
Berg Mfg. & Sales Co., 1712 S. Michigan Blvd., Chicago 16, Ill. (Breakaway.)  
George Mfg. Co., 10 Harvey St., Philadelphia 44, Pa. (Automatic.)  
Midland Steel Products Co., Owosso Div., 490 S. Chestnut St., Owosso, Mich.  
Power Brake Equipment Co., 1632 S. E. 11th St., Portland 14, Ore.  
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.  
Seale Inc., Homer T., 5330 Alhambra Ave., Los Angeles 32, Calif. (Breakaway.)  
Sweetland Corp., 940 N. Fair Oaks Ave., Pasadena, Calif. (For trucks, trailers, and buses.)  
Talcro Engrg. Co., 2685 State St., Hamden, Conn. (Breakaway.)  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.



**"In terms of cost of operation . . .**

## **Stainless Steel is the most economical material we can buy"**

says Ed Smith, Manager of Maintenance & Equipment

P. B. Mutrie Motor Transportation, Waltham, Mass.



P. B. Mutrie Motor Transportation, Inc. is a common carrier operating in Interstate Commerce in over 20 states and Canada. It currently operates a fleet of over 300 trailers hauling more than 400 different kinds of liquids, and is presently adding more Stainless Steel trailers to the fleet. In the words of Ed Smith, "Stainless Steel is the cheapest material that we can buy in terms of cost of operation. Light metals don't often have nearly enough corrosion resistance and strength, and lined tanks will deteriorate with use in contact with some types of cargoes we transport. For these reasons, Stainless Steel is in the long run cheaper than any other material for our type of service.

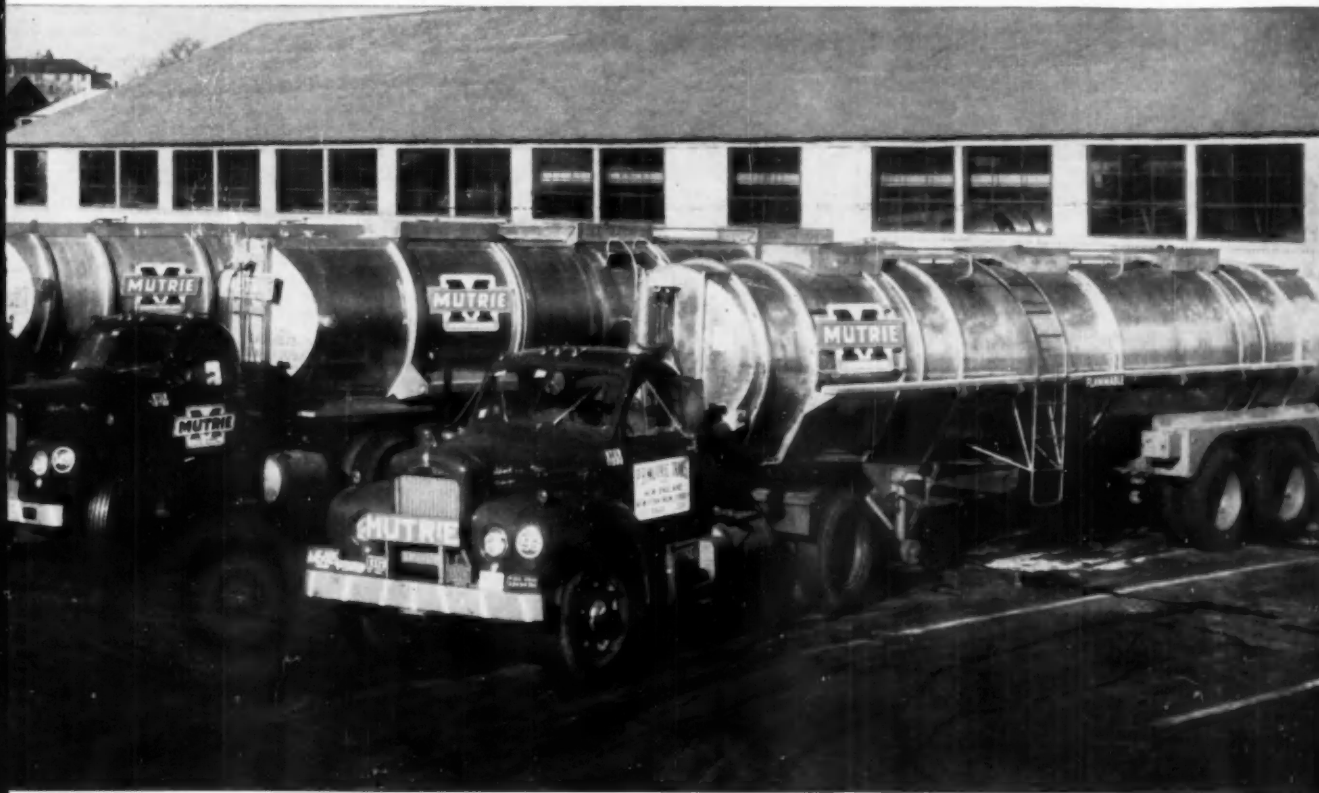
"But the biggest reason for using Stainless tankers still remains the use factor. Typically, a non-Stainless tanker will deliver a load, then return empty because it

cannot take some other liquid in its hold. While on the other hand, Stainless tankers, because of the increased range of liquids that can be carried and the ease of cleaning, can accommodate another type of liquid on a return movement."

Summing it up, Ed Smith said, "In our experience, Stainless Steel tankers are our choice due to the versatility, ease of cleaning, decreased maintenance, and industry acceptance. And as far as maintenance goes, we are still operating the original Stainless Steel tanker that we put into service 20 years ago, and it's still in good condition.

"In the entire span of time since Stainless trailers were introduced in the early 1930's, no Stainless Steel trailer has ever been known to wear out."

**In some cases, it takes only 30 minutes to clean a Stainless Steel tank; then it is ready for another load.**



United States Steel Corporation, Pittsburgh • American Steel & Wire Division, Cleveland • Columbia-Geneva Steel Division, San Francisco • National Tube Division, Pittsburgh  
Tennessee Coal & Iron Division, Fairfield, Ala. • United States Steel Supply Division, Warehouse Distributors • United States Steel Export Company, New York

# **USS STAINLESS STEEL**



**SHEETS • STRIP • PLATES • BARS • BILLETS • PIPE • TUBES • WIRE • SPECIAL SECTIONS**

**UNITED STATES STEEL**

## valves

CCJ's Product Directory

### VALVES, Air Tank Drain

Champion Pneumatic Machinery Co., 824 N. Pleasant St., Princeton, N. J.  
George Mfg. Co., 10 Harvey St., Philadelphia 44, Pa.  
Hamilton Co., L. L., 28 N. W. 10th St., Oklahoma City, Okla. (For brakes and compressors.)  
Master Equipment Corp., P. O. Box 55, Dayton 1, Ohio. (Automatic.)  
Monroe Standard, Inc., Wyandot Bld., Galion, Ohio.  
National Pneumatic Co., 125 Amory St., Boston 19, Mass.  
Power Brake Parts Mfg. Co., 2435 S. Racine Ave., Chicago 8, Ill. (Truck, trailer and bus.)

Quincy Compressor Co., 217 Maine St., Quincy, Ill.  
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.  
Westinghouse Air Brake Co., Industrial Products Div., P. O. Box 36, Wilmerding, Pa.  
Wilkerson Corp., 1601 W. Girard Ave., Englewood, Colo.

### VALVES, Electromagnetic

(For fuel shutoff, oil shutoff and hydraulic control)  
(Advertisers only)  
General Controls Co., 801 Allen Ave., Glendale 1, Calif.

### VALVES, Engine Poppet

Aluminum Industries, Inc., 3670 Werk Rd., Cincinnati 11, Ohio.  
American Hammered Automotive Replacement Div. of Sealed Power Corp., Accuralite Div., 2001 Sanford St., Muskegon, Mich.  
Andrews Parts Mfg. Co., 32-70 41st St., Long Island City 6, N. Y.  
Eaton Mfg. Co., Valve Div., 9771 French Rd., Detroit 13, Mich.  
Elgin Machine Works, 412 N. State St., Elgin, Ill.  
Ertel Products Corp., Div. Ertel Mfg. Corp., 1400 E. 20th St., Indianapolis, Ind.  
Farts Processing Corp., 1499 E. Michigan Ave., Battle Creek, Mich. (For trucks and buses.)  
Perfect Parts, Inc., 43 W. 23rd St., New York 10, N. Y.  
Remco Products Corp., State & Hay Sts., York, Pa.  
Rich Mfg. Co., 96 N. Division St., Battle Creek, Mich.  
Sealed Power Corp., 2001 Sanford St., Muskegon Heights, Mich.  
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.  
Toledo Steel Products, Div. Thompson Products Inc., 6402 Cedar Rd., Cleveland 3, Ohio.  
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y.  
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis.  
Wolverine Gear & Parts Co., Osseo, Mich.

## Sensory 3 way Torque Wrench



- ✓ Faster than the fastest.
- ✓ Lasts twice as long.
- ✓ Accurate for life.

**3** Feel it

The handle releases momentarily when pre-set torque is reached.



Quality Tool Suppliers Handle These Flexible Beam Torque Wrenches

Write Torque Wrench P.O. Box 600 Addison, Ill. . . for catalog sheet.

### VALVES, Gasoline Tank

Anderson Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.  
Betts Machine Co., 1800 Pennsylvania Ave., W., Warren, Pa.  
Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.  
General Controls, 801 Allen St., Glendale, Calif.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.  
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

### VALVES, Safety or Emergency

(For safeguarding contents of tanks)  
Aircraft Products Div., Manning, Maxwell & Moore, Shelter Rock Lane, Danbury, Conn.  
Betts Machine Co., 1800 Pennsylvania Ave., W., Warren, Pa.  
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.  
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.  
Norgren Co., C. A., 3400 S. Elati St., Englewood, Calif.  
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.  
Robinson Engineering & Sales Co., 16550 Wyoming Ave., Detroit 21, Mich.  
Shand & Jurs Co., 8th & Carlton Sts., Berkeley 10, Calif. (Truck Tank.)

### VALVES, Solenoid (Diesel Engine)

Murphy Mfr. Inc., Frank, W. 5428 E. Admiral Pl., Tulsa, Okla.

VALVES, SHUTOFF. See Valves, Electromagnetic

VALVE TAPPETS. See Tappets, Valve

### VALVES, Two-Way, Three-Way and Four-Way, Air

Allen Co., A. K., Meserole Ave., Brooklyn 22, N. Y.  
American Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.  
Anderson Brass Co., 100 S. Campbell Ave., Detroit 9, Mich.  
Betts Machine Co., 1800 Pennsylvania Ave., W., Warren, Pa.  
Branick Mfg. Co., Fargo, N. D.

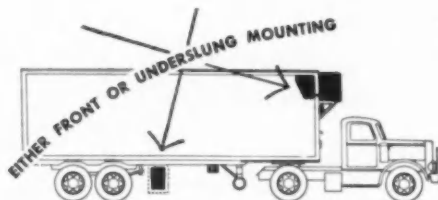
**Formula for better**



$$TA^c_d + TA^c_e + P_p(CE:d, g, LP) + C_c + Bah ITB = 2 Re!^*$$

\*Tropic-Aire—Carrier designing, plus Tropic-Aire—Carrier engineering, plus Plenty of *power* (Continental Engines using diesel, gasoline or Propane), plus Carrier compressor, plus Better air handling *inside trailer body* equals *twice the usual refrigeration efficiency!* Capacities: 5 and 7 tons refrigeration.

**Refrigerated Service**



McGraw Edison Co., Clark Division  
5202 W. 65th St., Chicago 38, Ill.



MOBILE REFRIGERATION / AIR CONDITIONING

\*"Tropic-Aire—Carrier" is a trademark of McGraw-Edison Co., Chicago, Illinois, makers of "Toastermaster" toasters and other "Toastermaster" and "Tropic-Aire" products. Copyright, 1957, McGraw-Edison Co.

## valves to vises

CCJ's Product Directory

### VALVES—continued

Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.  
Hannifin Corp., 615D S. Wolf Rd., Des Plaines, Ill.  
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio.  
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. (Tank.)  
Keller Tool Div., Gardner Denver Co., 1333 Fulton St., Grand Haven, Mich.  
Logansport Machine Co., Center Ave., Logansport, Ind.  
Ruggles-Klingeman Mfg. Co., Foster Court, Salem, Mass. (Electrically operated.)

S-P Mfg. Corp., 30201 Aurora Rd., Solon, Ohio. (Four-way.)  
Skinner Electric Valve Div. Skinner Chuck Co., Edgewood Ave., New Britain, Conn. (Cut-off for L.P. gas fuel systems.)  
Weatherhead Co., Ft. Wayne Div., 128 W. Washington Blvd., Ft. Wayne, Ind.

### VALVES, Tire

(See also Caps, Tire Valve)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.

Bridgeport Brass Co., 80 Grand St., Bridgeport 2, Conn.  
Carlan Instruments Co., 1375 Park Ave., Cranston 9, R. I.  
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.  
Drugs Bros. Mfg. Co., 888-92nd Ave., Oakland 3, Calif. (Sole distributors Tru-Plate Inc., 888-92nd Ave., Oakland 3, Calif.)  
Goodrich Tire Co., B. F., 509 S. Main St., Akron, Ohio.  
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.  
Patch Rubber Co., P. O. Box 933, Akron 9, Ohio.  
Rite-Way Products Co., 39 W. E. H. Crump Blvd., Memphis 2, Tenn.  
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

### VEHICLE SIGNS

(See also Decalcomanias)

Ward's Trucksign Transfers, 8504 Lyndon Ave., Detroit 38, Mich.

### VENTILATORS, Bus and Truck

Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. (Bus.)  
Evans Products Co., 13101 Eckles Rd., Plymouth, Mich. (Bus and truck cab.)  
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind. (Bus.)

### VENTILATORS, Crankcase

AC Spark Plug, The Electronics Div. of General Motors, 1300 N. Dort Highway, Flint 2, Mich.  
Donaldson Co., 666 Pelham Blvd., St. Paul 14, Minn.  
Fram Corp., Providence 16, R. I.  
Monarch Tool & Machinery Co., 3235 S. Racine Ave., Chicago 8, Ill.  
Oildex Corp., 418 E. Second St., Tulsa, Okla.  
Ryder Mfg. Co., 220 N. Ada St. Chicago 7, Ill.

### VENTILATOR, Exhaust Manifold

Flint Corp., 1323 N. Water St., Milwaukee 2, Wis.

### VENTILATORS, Roof

Columbus Metal Products Co., 1341 Norton Ave., Columbus 8, Ohio. (Bus.)  
Evans Products Co., 13101 Eckles Rd., Plymouth, Mich. (Power driven for trucks.)  
H & P Die & Stamping Co., 13945 Trishett Rd., Cleveland 11, Ohio. (For bus, truck and trailer.)  
Metalcraft Mfg. Co., 1202 E. 23rd St., Indianapolis 4, Ind. (For fire trucks, school buses, tractors and army trucks.)

### VENTS, Tank Body

Buckeye Iron & Brass Works, 324 E. Third St., Dayton 1, Ohio.  
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.  
Morrison Bros. Co., 2401 Elm St., Dubuque, Iowa.  
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.  
Protectional Co., 1920 S. Western Ave., Chicago 8, Ill.

### VISCOSIMETERS

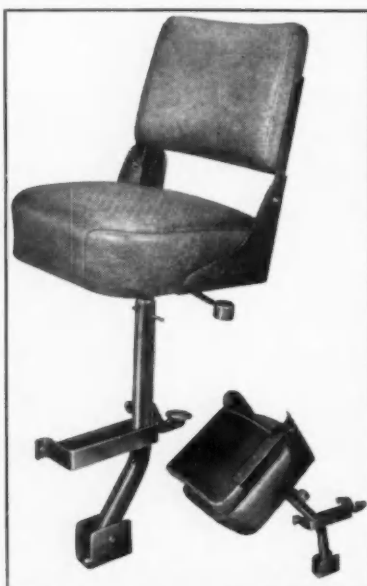
Bristol Co., Waterbury 20, Conn.  
Precision Scientific Co., 3737 W. Cortland St., Chicago 47, Ill.  
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Auto oil.)

### VICES, Piston

Groove-Rite Tool Co., 40300 Grand River Ave., Farmington, Mich.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
Lempe Products Inc., 5490 Dunham Rd., Bedford, Pa.



New Model 310 Multi-Purpose Seat



Model 0-4418 Tilt-Away Seat

## American Seating comfort helps speed your deliveries!

American Seating light-delivery truck seats are comfort-designed to reduce driver fatigue; help meet tight delivery schedules.

The all-new Model 310 Multi-Purpose Seat has coil springs in cushion and seat back; adjusts vertically to four positions, 3" range; fore and aft to five positions, 4" range. It's craftsman-upholstered, with reinforced French seams, for long life and hard

service. Metal parts are finished in high-lustre baked enamel.

The Model 0-4418, with its full-depth foam-rubber cushion, is covered in vinyl-coated fabric upholstery—perforated for ventilation. Vertical adjustment, 4" range with five positions; entire seat hinges at floor for easy entry and exit.

Next time you order, ask for comfort—ask for American Seating!

**AMERICAN  
SEATING**



GRAND RAPIDS 2, MICHIGAN

**WORLD'S LEADER IN PUBLIC SEATING**

Branch Offices and Distributors in Principal Cities. Manufacturers of Transportation, School, Theatre, Auditorium, Church, Stadium Seating, and Folding Chairs.



## CLEVE-WELD'S NEW LIGHTWEIGHT 5° RIM



### LIGHTER WEIGHT = LESS INERTIA = LESS MAINTENANCE

**Cleve-Weld's new lightweight rim helps your trucks run more easily, earn more. Brakes, motors, transmissions last longer because they do less work starting, stopping, turning.**

Cleve-Weld's new rim is three ways lighter. This means three extra ways to profit from your fleet. Strategic reductions in weight of the side-ring, rim base and drive plates cut unsprung weight. These new rims literally earn while running... not to

mention their lower initial cost versus old-fashioned heavyweights.

Cleve-Weld lightweights profit you still a third way. Trucks will have decidedly less inertia to overcome... day in, day out. The stresses and strains motors, transmissions and brakes avoid will help to prolong operating life... more than pay for the rims. For full information, write us. Or see your parts supplier.

The Cleveland Welding Company is America's leading specialist in truck rim manufacture.



**CLEVELAND WELDING DIVISION**  
**AMERICAN MACHINE & FOUNDRY COMPANY**  
Cleveland 11, Ohio

## vises to washers

### VICES—continued

Production Devices, Inc., N. Williams St., Whitehall, N. Y. (Pneumatic and hydraulic.)  
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.  
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

### VICES, Piston Pin

Ameco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
Lemco Products Inc., 5490 Dunham Rd., Bedford, Pa.

Lisle Corp., 809 E. Main St., Clarinda, Iowa.  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

### VULCANIZERS, Portable

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Electric, tube.)  
Bishman Mfg. Co., Osseo, Minn. (Tube.)  
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Electric tire.)  
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio. (Electrical, tube.)

## CCJ's Product Directory

Egan Mfg. Co., H. B., 425 W. Main St., Muskogee, Okla.  
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 38, N. Y.  
Speaker Corp., J. W., 8059 W. Weil St., Milwaukee 12, Wis. (Electric, tire and tube.)

### VULCANIZERS, Shop

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 18, Cal. (Electric and steam tube.)  
Big-Four Industries Inc., 5938 Carthage Court, Cincinnati, Ohio. (For tubeless tires.)  
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio. (Steam tube.)  
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn. (Electric.)  
Center Line Mfg. Co., 2418 McCormick St., Wichita, Kans. (Tube.)  
Heints & Co., James C., 3738 W. 143rd St., Cleveland 11, Ohio. (Tube.)  
Shaler Co., Waupum, Wis. (Tire.)  
Western States Mfg. Co., 811 Main St., Sioux City, Iowa. (Electric.)

### WASHERS (Fountain Brushes and Mops)

Flour City Brush Co., 1501 Fifth Ave., S., Minneapolis 15, Minn. (Brushes.)  
Fuller Brush Co., Industrial Div., 3651 Main St., Hartford 2, Conn. (Brushes.)  
Henry Mfg. Co., 1310 Marquette St., Minneapolis Minn. (Brushes.)  
K. C. Fountain Brush Mfg. Co., 3718 Main St., Kansas City, Mo. (Brushes.)  
Kleen-Mor Mfg. Co., P. O. Box 8531, Jackson, Miss. (Cotton mop.)  
Laitner Brush Co., 2000 Brooklyn Ave., Detroit 26, Mich. (Brushes.)  
Master Specialty Co., 3725 Monitor Ave., Minneapolis 16, Minn. (Revolving brushes and injector for liquid detergent brushes.)  
Melaire Dist. Co., Box 149 Grand Central Station, New York, N. Y.  
Milwaukee Brush Mfg. Co., 2235 N. 30th St., Milwaukee 45, Wis. (Brushes.)  
Milwaukee Dustless Brush Co., 530 N. 22nd St., Milwaukee 3, Wis.  
Molded Specialties, Inc., 1333 E. 170th St., Cleveland, Ohio. (Wash pads.)  
O-Cedar Corp., 2246 W. 49th St., Chicago 9, Ill. (Mops.)  
Oswor Products Co., Hazel St., Glen Cove, N. Y. (Brushes.)  
Pacific Coast Brush Co., 1509 Santa Fe Ave., Los Angeles 21, Calif. (Brushes.)  
Ransom Brush Co., 1051 W. Division St., Chicago 22, Ill. (Brushes.)  
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Brushes; sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)  
Tucker Mfg. Co., 112 Fourth Ave., S. E., Cedar Rapids, Iowa. (Brushes with telescopic handles.)  
Wilson Inc., K. R., Arcade, N. Y.

### WASHERS, Metal Parts

Acoustica Associates Inc., Shore Rd., Glenwood Landing, New York. (Ultrasonic.)  
Aerol Products Co., 69 Wesley St., South Hackensack, N. J.  
Alvey-Ferguson Co., 3131 Disney St., Oakley, Cincinnati, 9, Ohio.  
Bacon Vulcanizer Mfg. Co., 1295 67th St., Oakland 8, Calif.  
Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. (Centrifugal.)  
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.  
Blakeslee & Co., G. S., 1844 S. Laramie Ave., Cicero, Ill.  
Cincinnati Cleaning & Finishing Machinery Co., 317 Hecla St., Ironton, Ohio.  
Circo Equipment Co., 120 Central Ave., Clark (Rahway), N. J.  
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.  
Detrex Chemical Industries, Inc., Box 501, Detroit 32, Mich.  
Drying Systems, Inc., 1810 1/2 Foster Ave., Chicago 40, Ill.  
Eclipse Fuel Engineering Co., 1111 Buchanan St., Rockford, Ill.  
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.  
Graymills Corp., 3705 N. Lincoln Ave., Chicago 13, Ill.

## WILL THE NEW SILICON RECTIFIERS IN THIS CHARGER LAST FOREVER?

NO ONE KNOWS YET, BUT **MARQUETTE**  
GUARANTEES RECTIFIERS IN NEW  
*Golden Age* CHARGERS FOR  
**5 FULL YEARS!**



Step into the *Golden Age* in battery charger-tester performance. Enjoy failure-free performance from a new Marquette "Golden Age" 6V-12V Battery Charger-Tester featuring remarkable silicon rectifiers guaranteed for 5 years.

How long will silicon rectifiers last? So far scientists have tested them for 40,000 hours—the equivalent of more than 80 years of normal battery charger service—without any loss of efficiency. Silicon rectifiers outlast and outperform any rectifier ever before built. Old style rectifiers have an uncertain life and suffer varying losses of output through aging both in and out of use.

The toughest tests under temperatures up to 300° F. cause no lessening of efficiency, no shortening of life span. And since the working portion of the silicon rectifier is permanently sealed from all contact with outside air, it is never affected by moisture, salt, dirt, or acid fumes.

Here is the battery charger-tester of tomorrow—available today. Marquette was the first manufacturer to explore use of silicon rectifiers in battery charger-tester equipment. Marquette Hi-Rate and Porto Fast are the only silicon rectifier charger-testers which have been awarded the Underwriters' Laboratories stamp of approval . . . and certified by Canadian Standards Association.

These new Marquette units continue to include exclusive 6V-12V battery cell check, 20 Second Test, and automatic push-button charging.

For the full story on all the new advantages you can enjoy in the "Golden Age", call your nearest Marquette Distributor.

**MARQUETTE**  
MANUFACTURING COMPANY, INC.

307 East Hennepin Avenue • Dept. 7-114  
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**"Quality  
First"...**

the complete **HEIN-WERNER** line  
provides the right jack on every job for  
better performance to save you money!

## HEIN-WERNER HYDRAULIC AXLE JACKS

— available in a full range from 1½ to 100  
tons capacity.



Model E1.7F  
Cap. 3000 lbs.  
Low 7"



Model E3.9A  
Cap. Tons 3  
Low 9"



Model E5.9A  
Cap. Tons 5  
Low 9"



Model E8.9A  
Cap. Tons 8  
Low 9"



Model E12.9A  
Cap. Tons 12  
Low 9"



Model 20.10AA  
Cap. Tons 20  
Low 10"



Model 30.11AA  
Cap. Tons 30  
Low 11"



Model 50.12AA  
Cap. Tons 50  
Low 12"



Model 100.12AA  
Cap. Tons 100  
Low 12"



Model V-1.20  
Cap. 3000 lbs.  
Low 4½"  
to 15¼"

## HEIN-WERNER HYDRAULIC SERVICE JACKS

— with easy-to-spot white  
swivel saddles in models from  
1¼ to 10 tons capacity.



Model O'BOY  
Cap. 2500 lbs.  
Low 4-5/16"



Model K  
Cap. Lbs. 4000  
Low 4"



Model GG  
Cap. Lbs. 8000  
Low 4"



Model X  
Cap. Lbs.  
20,000  
Low 6"

Model WS  
Cap. Lbs. 3000  
Low 4"



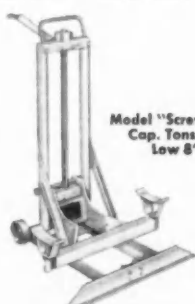
**HEIN-WERNER  
TRANSMISSION JACKS**  
— available in three models:  
Floor Type, Pedestal Type  
and Under-Vehicle Unit to  
meet all requirements.

## HEIN-WERNER Twin Saddle SERVICE JACKS

— originated and pioneered by Hein-Werner to quickly and safely lift all  
passenger cars and light trucks.



Model "55"  
Cap. Tons 1½  
Low 8"



Model "Screwball"  
Cap. Tons 1½  
Low 8"



Model WHIZ  
Cap. Tons 1½  
Low 8¼"



See your Hein-Werner Jobber, or write us for complete  
details. Ask about purchasing on easy time payment plan.

# HEIN-WERNER CORPORATION

WAUKESHA, WISCONSIN

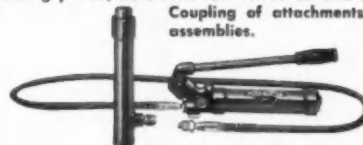
## HEIN-WERNER "Push and Pull" HYDRAULIC JACKS

— in models of 4, 10 and 20 ton capacity  
for heavy service.



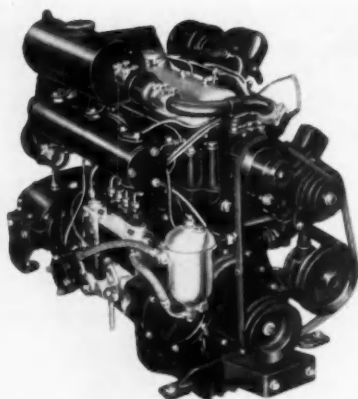
## HEIN-WERNER PUSHMASTER HYDRAULIC JACKS

— pack full 4 ton  
pushing power, automatic ram retraction and Quick  
Coupling of attachments and  
assemblies.





# MERCE Diesel



MODEL OM 636



MODEL OM 321

These engines — the world's finest diesels — are now available for sale through the Utica-Bend Division of the Curtiss-Wright Corporation, to manufacturers and users of industrial, marine, construction and materials handling, trucks and busses, railroad, electrical generating, agricultural, oil and gas equipment. . . The Utica-Bend Division will both import and manufacture the Mercedes-Benz diesels, ranging from 36 to 3000 h.p., together with components, spare parts, accessories and fuel injection systems. Mercedes-Benz diesels are noted the world over for their high power to weight ratios and are designed

MODEL NO.	NO. OF CYL.	RATING* HP @ RPM
OM 636	4	36 @ 3000
OM 312	6	79 @ 2400
OM 321	6	96 @ 2600
OM 315	6	123 @ 1800
M 204 B	4	129 @ 1200
†MB 846 A	6	242 @ 1500
†MB 846 Ab	6	320 @ 1500
MB 836 B	6	360 @ 1500
MB 846 Db	6	375 @ 1500
MB 837 A	V-8	451 @ 2000
MB 836Bb	6	513 @ 1500
MB 837 Aa	V-8	564 @ 2000
MB 836 Db	6	666 @ 1600
MB 820 B	V-12	718 @ 1500
MB 820 Bb	V-12	1026 @ 1500
MB 820 Db	V-12	1385 @ 1500

Ab TURBOCHARGED

Db HIGH OUTPUT TURBOCHARGER

\*INDUSTRIAL INTERMITTENT

**Other Mercedes-Benz Diesel Engines Available In  
12 And 20 Cylinders Up To 3000 Horsepower**

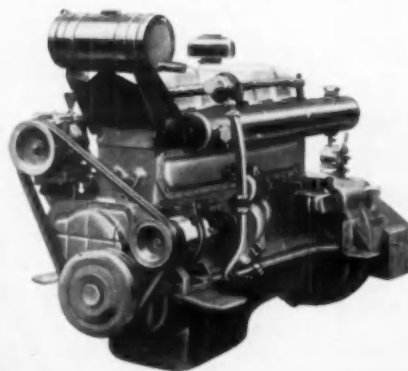


# DES-BENZ Engines

and built to the highest standards of quality, performance and economy. . . Unusually long engine life and dependable operation under extreme climatic conditions are made possible by their exclusive design. . . The sales and service program for Mercedes-Benz diesels, now being established by Utica-Bend, provides for sales representation in key areas and facilities for servicing of engines and distribution of spare parts to assure full maintenance of equipment in the field. . . For further information, write to: UTICA-BEND DIVISION, CURTISS-WRIGHT CORPORATION, UTICA, MICHIGAN.




MODEL OM 312



MODEL OM 315

DISPL. CU. IN.	WEIGHT LBS.	APPROXIMATE DIMENSIONS		
		LENGTH	WIDTH	HEIGHT
108	400	2'5"	1'9"	2'6"
280	808	3'1"	2'2"	3'5"
311	784	3'1"	2'2"	3'5"
505	1775	4'6"	2'3"	3'11"
789	2715	4'9"	2'7"	3'11"
1230	4075	6'2"	2'8"	5'
1230	4298	7'2"	3'1"	5'2"
1806	3560	6'4"	3'5"	4'7"
1230	4266	7'0"	2'10"	5'2"
1823	2970	4'1"	3'5"	3'6"
1806	4080	7'	3'5"	5'4"
1823	3080	4'2"	3'5"	3'8"
1806	4290	7'6"	3'5"	5'4"
3613	5510	8'	4'5"	6'1"
3613	6116	7'11"	4'5"	6'5"
3613	6612	7'11"	4'6"	6'1"

α MECHANICAL SUPERCHARGER † AVAILABLE IN HORIZONTAL CONFIGURATION

UTICA-BEND DIVISION  
**CURTISS-WRIGHT**   
CORPORATION • UTICA, MICHIGAN

## washers to weather strips

### WASHERS—continued

Hanson-Van Winkle-Munning Co., Matawan, N. J.  
Industrial & Scientific Products, Div. Curtiss-Wright Corp., P. O. Box 270, Caldwell, N. J.  
International Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.  
J. P. Mfg. Co., 330 E. Front St., Youngstown 3, Ohio.  
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif.  
L & R Mfg. Co., 577 Elm St., Arlington, N. J.  
Magnus Chemical Co., 185 South Ave., Garwood, N. J.

Mahon Co., R. C., 6565 E. 8-Mile Rd., Detroit 34, Mich. (Combined belt conveyORIZED washer and dryer.)  
Metalwash Machinery Corp., 901 North Ave., Elizabeth 4, N. J.  
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich.  
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. (Combined belt conveyORIZED washer and dryer.)  
Phillips Mfg. Co., 3475 Touhy Ave., Chicago 45, Ill.  
Pioneer-Central Div. Eclipse-Pioneer Div., Bendix Aviation Corp., Davenport, Iowa.

Practical Mfg. Co., 2840 Fourth Ave., S., Minneapolis 8, Minn.  
Protectoseal Co., 1920 W. Western Ave., Chicago 8, Ill.  
Ranshoff Inc., N. 5th St. at Ford Blvd., Hamilton, Ohio.  
Schmieg Industries, Inc., 29330 Sherwood St., Detroit, Mich.  
Simplicity Engrg. Co., Durand 1, Mich.  
Stevens Inc., Frederic B., 1800 18th St., Detroit 16, Mich.  
Storm-Vulcan Inc., 2225 Burbank St., Dallas, Tex.  
Turco Products, Inc., 6155 S. Central Ave., Los Angeles 1, Calif.  
U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y.  
Wilson, Inc., K. R., Arcade, N. Y.  
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn.

**PENN BODY** offers YOU a  
profitable 20 TON PAYLOAD  
for PENNSYLVANIA

And HERE'S HOW you can  
haul more with the weight-saving  
PENN ALUMINUM TRAILER BODY and  
front mounted hoist...

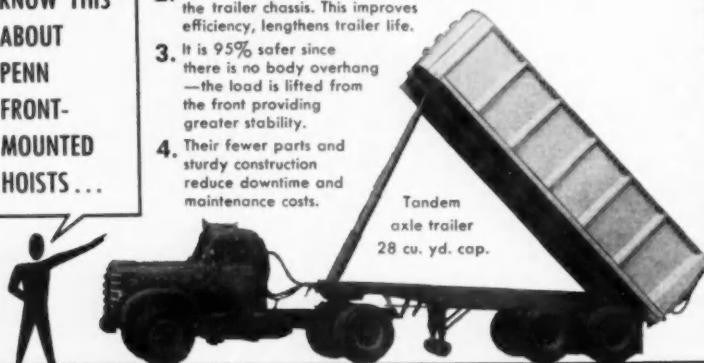


Pennsylvania Gross ..... 60,000 lbs.  
Less Penn Aluminum  
Body and Hoist ..... 19,400 lbs.

**YOUR BIGGER PAYLOAD 40,600 lbs.**

TRUCKERS  
KNOW THIS  
ABOUT  
PENN  
FRONT-  
MOUNTED  
HOISTS...

1. The single hoist weighs less and fewer parts are needed for its installation.
2. More weight is placed on the tractor axle and less on the trailer chassis. This improves efficiency, lengthens trailer life.
3. It is 95% safer since there is no body overhang—the load is lifted from the front providing greater stability.
4. Their fewer parts and sturdy construction reduce downtime and maintenance costs.



*Your Inquiries are welcome*

Truck Body Specialists with 23 years  
experience in the use of telescopic hoists

**PENN BODY DIVISION**

**HOCKENSMITH CORPORATION**

PENN, PA. Call: Jeannette, Pa., LAfayette 3-5401 ... Pittsburgh, Electric 1-1242

### CCJ's Product Directory

#### WASHERS, Steel

(Advertisers only)

Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich.

#### WASHERS, Vehicle

(Water, steam and compressed air)

Aeroil Products Co., 69 Wesley St., S. Hackensack, N. J. (Portable.)  
Champion Pneumatic Machinery Co., 825 N. Pleasant St., Princeton, Ill.  
Choldun Mfg. Corp., 331 East St., New Haven, Conn. (Automatic.)  
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. (Steam.)  
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. (Steam.)  
Curtis Mfg. Co., Pneumatic Div., 1927 Kienlen Ave., St. Louis 20, Mo. (Hydraulic.)  
Deming Co., 884 S. Broadway, Salem, Ohio  
Detrex Chemical Industries, Inc., Box 601, Detroit 32, Mich.  
Friend Mfg. Co., East Ave., Gasport, N. Y.  
General Equipment Div., Sterco Mfg. Co., 442 Frelinghuysen Ave., Newark 5, N. J.  
Hardie Mfg. Co., Mechanic St., Hudson, Mich.  
Hydro-Air Cleaning Systems, Inc., 14731 Miles Ave., Cleveland 28, Ohio.  
Jetomatic, Inc., 150 Wakelle Ave., Ansonia, Conn. (Automatic.)  
Kelite Corp., 1250 N. Main St., Los Angeles 12, Calif. (Steam.)  
Malsbury Mfg. Co., 845 92nd Ave., Oakland 8, Calif. (Steam.)  
Minit-Man Inc., 509 E. Ten Mile Rd., Royal Oak, Mich.  
Oakite Products, Inc., 19 Rector St., New York 6, N. Y. (Including tank truck interiors.)  
Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill. (Automatic.)  
Southwest Pump Co., First & Center Sts., Bonham, Tex.  
Supreme Equipment Corp., 12415 Euclid Ave., Cleveland 6, Ohio.  
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.  
Wayne Pump Co., Salisbury, Md. (Automatic.)  
Weaver Mfg. Co., 2177 S. 9th St., Springfield, Ill. (Automatic.)  
Wohlert Corp., 700 E. Grand River Ave., Lansing 5, Mich. (Automatic.)

#### WASHERS, Windshield, Vacuum Operated

Anderson Co., 1075 Grant St., Gary 40, Ind.  
Santay Corp., 851 N. Crawford Ave., Chicago 24, Ill. (Foot controlled.)  
Trio Products Corp., 817 Washington St., Buffalo 8, N. Y.

WAX, See Polish, Body

#### WEATHER STRIPS

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.  
Atlantic India Rubber Works, Inc., 571 W. Polk St., Chicago 7, Ill.  
Automotive Products Div., Crotty Corp., 30 E. Chicago Ave., Quincy, Mich.  
Auto Vehicle Parts Co., 1032 Saratoga St., Newport 6, Ky.  
Bridgeport Fabrics, Inc., 165 Holland Ave., Bridgeport 1, Conn. (Door.)  
Brockton Stay Co., 24 Essex St., Haverhill, Mass.



*Fleet Owners Save Money!*

# **NEVER A TRUCK OUT OF SERVICE DUE TO BATTERY FAILURE...**

## **Amazing New VITALYTE Ends Battery Failure!**

NO ADDITIVE, VITALYTE IS A NON-ACID FLUID REPLACEMENT FOR THE ELECTROLYTE IN ANY WET-CELL STORAGE BATTERY

Companies and corporations owning fleets of trucks, buses, boats, or aircraft will enjoy tremendous savings through the use of Vitalyte. Vitalyte does away with the necessity of having large stock piles of expensive batteries. In addition, Vitalyte reduces dramatically the cost involved in maintaining large quantities of batteries both on and off charge. And still more important, no longer will battery failures tie up equipment, cause delays and result in poor customer relations and possible loss of profits and business.

Vitalyte saves you money many ways besides eliminating the need for frequent battery replacement. It eliminates the cost replacement of battery brackets and strips which corrode with acid-type batteries. It reduces the big expense of road service when batteries need recharging. And, of course, every quick charge — which produces sulphation — not only costs money but shortens the life of the battery by two months.

### **Tests Prove VITALYTE...**

1. Greatly increases life of battery
2. Greatly increases dependability of battery
3. Assures rapid recovery
4. Eliminates corrosion
5. Eliminates battery heat
6. Reduces fluid evaporation
7. Dissolves and suspends sulphation
8. Is NON-EXPLOSIVE
9. Produces higher value current



### **Read what these corporations say!**

**A. R. Holloway, Maintenance Supt.  
West Palm Beach Coach Lines**

"Dependability is a must in our business. And one of our problems has always been battery failure. This year we installed Vitalyte in one of our bus batteries. The particular 12 volt battery chosen was heavily sulphated and would not hold a normal charge. Since switching to Vitalyte, we have not recharged the battery once! All our batteries are now being refilled with Vitalyte. We anticipate tremendous savings in this change-over program in battery purchase costs as well as maintenance costs."

**Robert W. Ward, Gen. Mgr.  
Cypress Gardens, Winter Haven, Fla.**

"We have been using Vitalyte in both our show boats and electric boats. The performance of our batteries has more than doubled since changing to Vitalyte."

"Our batteries are in constant use from sunrise to sunset. During that period, on a 365 day a year basis, they undergo a severe test on their stamina. With the saving in both labor and material now possible, and because of its safety factors, Cypress Gardens can be classified as a staunch booster of Vitalyte."

**VITALYTE can extend the life expectancy of a 12-month guaranteed battery up to 5 years... an 18-month guaranteed battery up to 10 years. Absolutely guaranteed or your purchase price gladly refunded.**



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**SEND FOR FREE BOOKLET**  
describing this amazing new  
non-acid electrolyte. Write to  
**VITALYTE CORPORATION**  
3976 N.W. 28th Street Miami, Florida

## weather strip adhesive to welders and equipment

### WEATHER STRIPS—continued

Buckeye Rubber Products, Inc., 637 N. Jackson St., Lima, Ohio.  
Carter Co., George R., 630 Lycaete Ave., Detroit, Mich.  
Chardon Rubber Co., Sixth & Washington Ave., Chardon, Ohio.  
Continental Rubber Works, 1946 Liberty St., Erie, Pa.  
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.  
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. (Windshield, window, door and trunk.)

G & C Products Co., Lindale Rd., Amelia, Ohio.  
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.  
Goodrich Co., B. F., Industrial Products Div., 500 S. Main St., Akron, Ohio.  
Goodrich Co., Sponge Products Div., B. F., Howe Ave., Shelton, Conn.  
Hamilton-Wade Co., 52 Haverhill St., Brockton 62, Mass.  
Hope Webbing Co., Providence, R. I.  
Industrial Rubber Goods Co., St. Joseph, Mich.  
Inland Mfg. Div., General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.

### CCJ's Product Directory

Johns-Manville Co., Dutch Brand Div., 7800 Woodlawn Ave., Chicago 16, Ill.  
Johnson Rubber Co., Middlefield, Ohio.  
Kastar, Inc., 200 Lincoln Ave., New York 44, N. Y.  
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio.  
Kravex Mfg. Co., 273 Van Sinderen Ave., Brooklyn 7, N. Y. (Door and trunk.)  
Lange Machine Works, Henry G., 156 N. May St., Chicago 7, Ill.  
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.  
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. (Sponge rubber door.)  
Roberts Toledo Rubber Co., 4143 Monroe St., Toledo 13, Ohio.  
Schwartz Rubber Corp., 3708 Payne Ave., Cleveland 14, Ohio. (Trunk.)  
Schlegel Mfg. Co., 277 N. Goodman St., Rochester 7, N. Y.  
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.  
Union Welt Corp., 2727 W. Roscoe St., Chicago 18, Ill.  
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.  
Western Felt Works, 4021 W. Ogden Ave., Chicago 23, Ill.

### WEATHER STRIP ADHESIVE

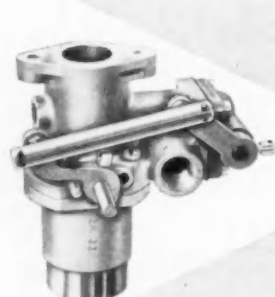
Carborundum Co., Niagara Falls, N. Y.

### WEIGHTS, Wheel Balancing

Amplex Engrg. Co., 2510 Grand Ave., New Castle, Ind.  
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.  
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.  
Bender Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.  
Bennett-Feragen, 1408 Jerome St., Niles, Mich.  
Binder Equipment Co., J. H., 5430 Tweedy Blvd., South Gate, Calif.  
Hunter Products Co., Hunter Ave. & Ladue Rd., St. Louis 24, Mo.  
Lempeo Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade Lempeo Automotive Inc., 2953 E. 55th St., Cleveland 27, Ohio.)  
Lucas Mfg. Corp., 309 S. Union St., Kokomo, Ind.  
Manbee Equip. Div., Bear Mfg. Co., P. O. Box 607, Rock Island, Ill.  
Perfect Equipment Corp., 804 W. Morgan St., Kokomo, Ind.  
Pouell Mfg. Co., 813 Burlington Ave., Logansport, Ind.  
Snugl Wheel Weight Mfg. Co., Div. of Mid-Western Auto Parts, 624 E. Elm St., Kokomo, Ind.  
Turner Mfg. Co., 404 W. Superior St., Kokomo 2, Ind.  
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.  
Wheel Weights, Inc., 122 S. First St., Ann Arbor, Mich.

### WELDERS and EQUIPMENT, Arc, Electric

Agnew Electric Co., 121 S. Main St., Milford, Mich. (Automatic.)  
Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.  
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.  
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo.  
Birdsell Mfg. Co., 750 San Antonio Rd., Palo Alto, Calif.  
Borm Mfg. Co., 23 N. Union St., Elgin, Ill.  
Couse Mfg. Inc., 300 Passaic Ave., Newark 4, N. J. (Mobile.)  
Forney Mfg. Co., 1820 La Porte Ave., Ft. Collins, Colo.  
General Electric Co., Apparatus Sales Div., 1 River Rd., Schenectady 5, N. Y.  
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.  
Harnischfeger Corp., Dept. 319 L, Milwaukee 46, Wis.  
Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.  
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.  
Lincoln Electric Co., 22801 St. Clair Ave., Cleveland 17, Ohio (Automatic and manual.)  
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.



## Convert lift trucks to Century LP-Gas Carburetion

SELECTED BY



## Towmotor for the popular Model 350

**CENTURY PROVES BEST** for Towmotor's LPG Model 350 Lift Trucks...best in performance...best in fuel economy...and best in compact design.

Century proved its performance and efficiency to this outstanding leader in the industrial truck field through a series of laboratory and field tests.

Now as factory standard on this popular Towmotor model, you will see the complete Century Carburetion system consisting of a Model 3C-702 Carburetor, Model H Converter and STF-1614 Filter-Fuellock.

Follow the lead of the big manufacturers, when converting lift trucks and other motorized equipment to LP-Gas—select Century LP-Gas Carburetion for top performance. Write for brochure.



**CENTURY**  
LP-GAS CARBURETION

CENTURY GAS EQUIPMENT COMPANY  
6855 East Rosecrans, Paramount, Calif.



# Tru-Stop Brakes

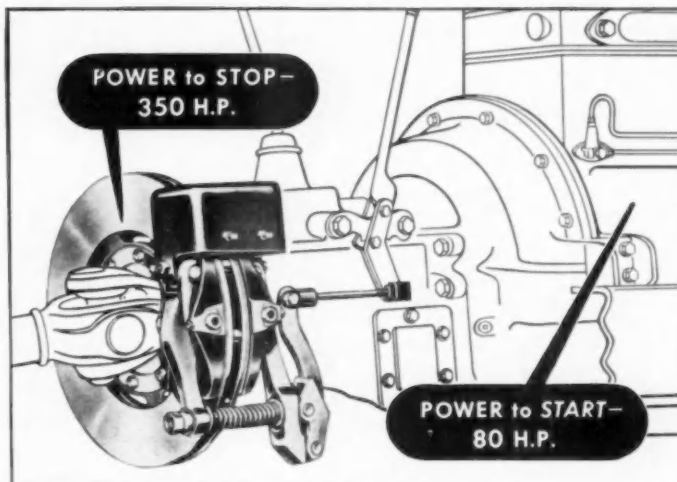
## Meet Every Heavy-Duty Safety Requirement

OFFER POSITIVE PROTECTION  
AGAINST RUNAWAY OR PARKING  
ACCIDENTS—AT LOWEST COST

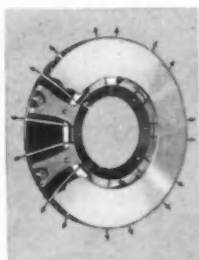
### HERE IS WHY:

**They have surplus power  
required for emergency  
service—no dangerous  
self-energizing**

TRU-STOP Heavy-Duty Emergency Brakes are not only excellent parking brakes. They serve as a complete, independent and fully reliable braking system. Operating on the propeller shaft they enable the driver to continue on safely in the event of service brake failure. TRU-STOP brakes have the surplus braking capacity to be used repeatedly as an auxiliary to service brakes.

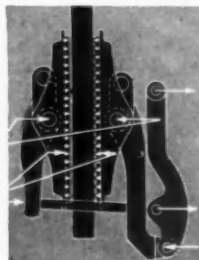


*Brakes actually do more work than the engine in terms of horsepower. Where it takes 80 HP to accelerate to 20 miles per hour, it takes 350 HP to make a safe stop from 20 miles per hour within required limits.*



### Ventilated to throw off heat

Brake efficiency depends on ability to throw off intense heat—rapidly. Discs of TRU-STOP brakes are exposed to the air even during the braking operation. Ventilated design circulates air between the disc plates.



### Give uniform brake pressure

Disc of TRU-STOP brakes is "squeezed" between the flat surface of the shoes. Effort applied to brake lever operates front and rear lever arms simultaneously. Pressure is exerted on the center of each shoe. Entire lining surface is in contact.

## FOR SAFE, ECONOMICAL, HEAVY-DUTY BRAKING WITH MAXIMUM LIFE AND MINIMUM MAINTENANCE

TRU-STOP Brakes are used on a great variety of mobile and stationary equipment

### SUCH AS—

Motor cranes

Road rollers

Dump trucks

Power dividers

Cooling tower fans

Oil well pumps

Cold header presses

Scrubbing machines

Wire rope stranders

Fork lift trucks

Motor scrapers

Tractors

Graders

Diamond core drills

Electric locomotives

Oil well servicing

rigs

Railway inspection

cars

Shapers

Power take-offs

Winches

Motor shovels

Tractor loaders

Conveyors

Hard rock drill

positioners

Mine locomotives

Power presses

Railway power

ballisters

Cable tool spudders

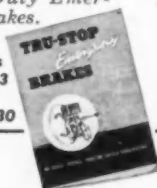
Aerial tram cars

Tension wire

stringers

We will be glad to  
answer any questions  
or give you more de-  
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about TRU-STOP  
Heavy Duty Emer-  
gency Brakes.  
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Catalogs  
DH-33  
and  
DH-530



## Automotive and Aircraft Division AMERICAN CHAIN & CABLE

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## welders and equipment to wheels

CCJ's Product Directory

### WELDERS—continued

Mercury Electric Corp., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)  
Metal & Thermit Corp., 100 E. 42nd St., New York 17, N. Y.  
Mid-States Welder Mfg. Co., 6025 So. Ashland Ave., Chicago 36, Ill. (Also stabilizers.)  
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.  
Morton Mfg. Co., Broadway & Hoyt St., Muskegon Heights, Mich.  
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill.

Precision Welder Mfg. Co., 2218 W. Lake St., Chicago 18, Ill.  
Royal Arc Industries Inc., 425 Cedar St., Champaign, Ill.  
Sight, Fred, Generator Co., West Alexandria, Ohio. (Automatic.)  
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis.  
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.  
Swift Ohio Corp., 8095 Livernois St., Detroit 4, Mich.  
Trindl Products, Ltd., 1807 S. Clark St., Chicago 16, Ill. (Welding.)

US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.  
Vickers Electric Div., Vickers Inc., 1816 Locust St., St. Louis 3, Mo.  
Welduction Corp., 10230 Capital Ave., Oak Park 37, Mich.  
Westinghouse Electric Corp., 3 Gateway Center, Pittsburgh 30, Pa.

### WELDERS and EQUIPMENT, Oxy-Acetylene

Air Reduction Sales Co., Socony-Mobil Bldg., 150 E. 42nd St., New York 17, N. Y.  
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.  
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich. (Regulators.)  
Harris Calorific Co., 5501 Cass Ave., N. W., Cleveland 2, Ohio.  
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.  
Liquid Carbonic Corp., Industrial Gas Div., Front & Porter Sts., Philadelphia 42, Pa.  
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Portable acetylene generators.)  
Modern Engineering Co., 3411 Pine Blvd., St. Louis 3, Mo.  
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago, Ill.  
National Welding Equipment Co., 218 Fremont St., San Francisco 5, Calif.  
Sight Feed Generator Co., West Alexandria, Ohio. (Acetylene generators.)  
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.  
Taylor-Winfield Corp., 1052 Mahoning Ave., N. W., Warren, Ohio.  
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.  
Victor Equipment Co., 844 Folsom St., San Francisco 7, Calif.

WELDING CABLE, See Cable, Welding

WELDING COMPOUNDS, See Compounds, Welding

WELDING HOSE, See Hose, Welding

WELDING RODS, See Rods, Welding

WHEEL ALIGNMENT EQUIPMENT, See Gages, Wheel and Axle Aligning

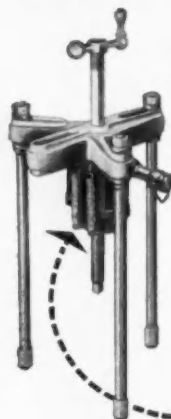
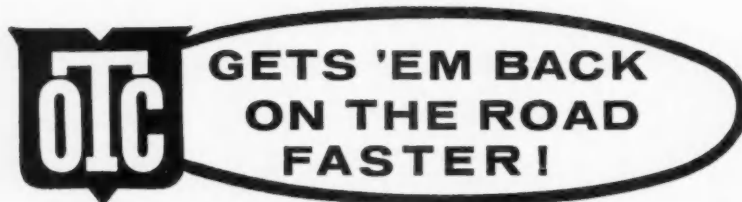
WHEEL BALANCING MACHINES, See Balancers, Wheel

### WHEELS, Fifth

American Steel Foundries, Hohman Ave. & Hoffman St., Hammond, Ind.  
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.  
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill. (Hydraulic.)  
Bound Brook Safety Equipment Co., 232 W. Union Ave., Bound Brook, N. J.  
Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio (Distributor.)  
Cemco Industries, Inc., Galion, Ohio. (Elevating.)  
Dayton Steel Foundry Co., P. O. Box 1022, Dayton 1, Ohio.  
Fontaine Truck Equipment Co., 1232 37th Place N., Birmingham, Ala.  
Frushauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis.  
Holland Hitch Co., 480 W. 18th St., Holland, Mich.  
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.  
Kingham Trailer Co., 16th & Hill Sts., Louisville, Ky.  
Pollard Co., C. E., 14671 Schaefer Rd., Detroit 27, Mich. (Hydraulic elevating.)  
Silver Eagle Co., 5885 N.W. St. Helens Rd., Portland 10, Ore.  
Smith Corp., A. O., Pacific Coast Div., 5715 Smithway, Los Angeles 22, Calif.  
Snyder Tank Corp., 3773 Lake Shore Blvd., (P. O. Box 14), Buffalo 6, N. Y.  
Weber Trailer & Mfg. Co., 8400 E. Slauson Ave., Rivers, Calif. (Mailing address P. O. Box 2473, Los Angeles 54, Calif.)

### WHEELS, Grinding (Advertisers Only)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa.



Speed repairs—get your units back working sooner—with OTC hydraulic pulling-installing tools—tools that save you time and money on repairs and maintenance . . . get your equipment out earning for you.

### HERE'S AN OTC DAY- AND DOLLAR-SAVER

#### OTC HYDRAULIC 2-WAY 3-WAY PUSH-PULLER

This tool removes, installs hubs, bearings, gears, pulleys, sheaves, sleeves, bushings, cylinder liners—fast—on all your equipment . . . eases out stubborn rusted or "frozen" parts without distortion or breakage. Inexpensive adapters let your Push-Puller do hundreds of jobs.

Powerful OTC rams give you plenty of muscle—up to **100 tons**—to do toughest jobs **fast!**

HERE ARE OTC  
Push-Pullers and Power-  
Twin hydraulic rams saving  
time—saving money—

Send for your FREE OTC  
catalog—shows hundreds of  
tools in action.



Removing cylinder sleeve without removing studs. OTC sleeve tool and hydraulic ram also install new sleeves.



Kingpins come out fast with OTC Push-Puller and Power-Twin ram. Use on trucks, tractors, buses, cars.

**OWATONNA TOOL COMPANY**  
341 CEDAR STREET • OWATONNA, MINNESOTA

# HIGH TEMPERATURES + HIGH PRESSURES = CLEAN TANKERS

*Malsbary  
High Pressure Combination  
cleaning enables  
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switch cargoes quickly,  
practically eliminates  
"re-cleaning" trips  
and "lost" hauls.*



*Hearin's maintenance superintendent, J. Ralph Johnson, sums up cleaning thus: "Without cleaning we'd simply lose our business...our drivers do a more efficient job operating clean, shiny trucks...and it's good public relations to have neat-looking equipment."*

Hearin Tank Lines, Baton Rouge, serves only the petroleum industry, hauls some 24 different materials, ranging from gasoline and asphalt to sulphuric acids and carbon black. Tank trucks naturally require decontamination when changing from one type of cargo to another. If the cleaning job isn't thorough enough, oil company inspectors return the tank for recleaning.



*Tankers aren't only ones to benefit from HPC cleaning. Here 2 guns team up on chassis and fifth wheel for Pacific Intermountain Express. With Malsbary 300 HPC cleaners you can cold rinse with 1 gun, while simultaneously using 1 other gun for hot solution cleaning or degassing—a real help on big fleets. (500 HPC same action with 2 guns.)*

"High temperatures and high pressures are needed to kick loose caked films and slime inside tanks. We just weren't getting the job done with our old steam vapor cleaner. Trucks waiting to be cleaned backed up so we were losing 30 to 40 jobs weekly at \$50 to \$400 per job."

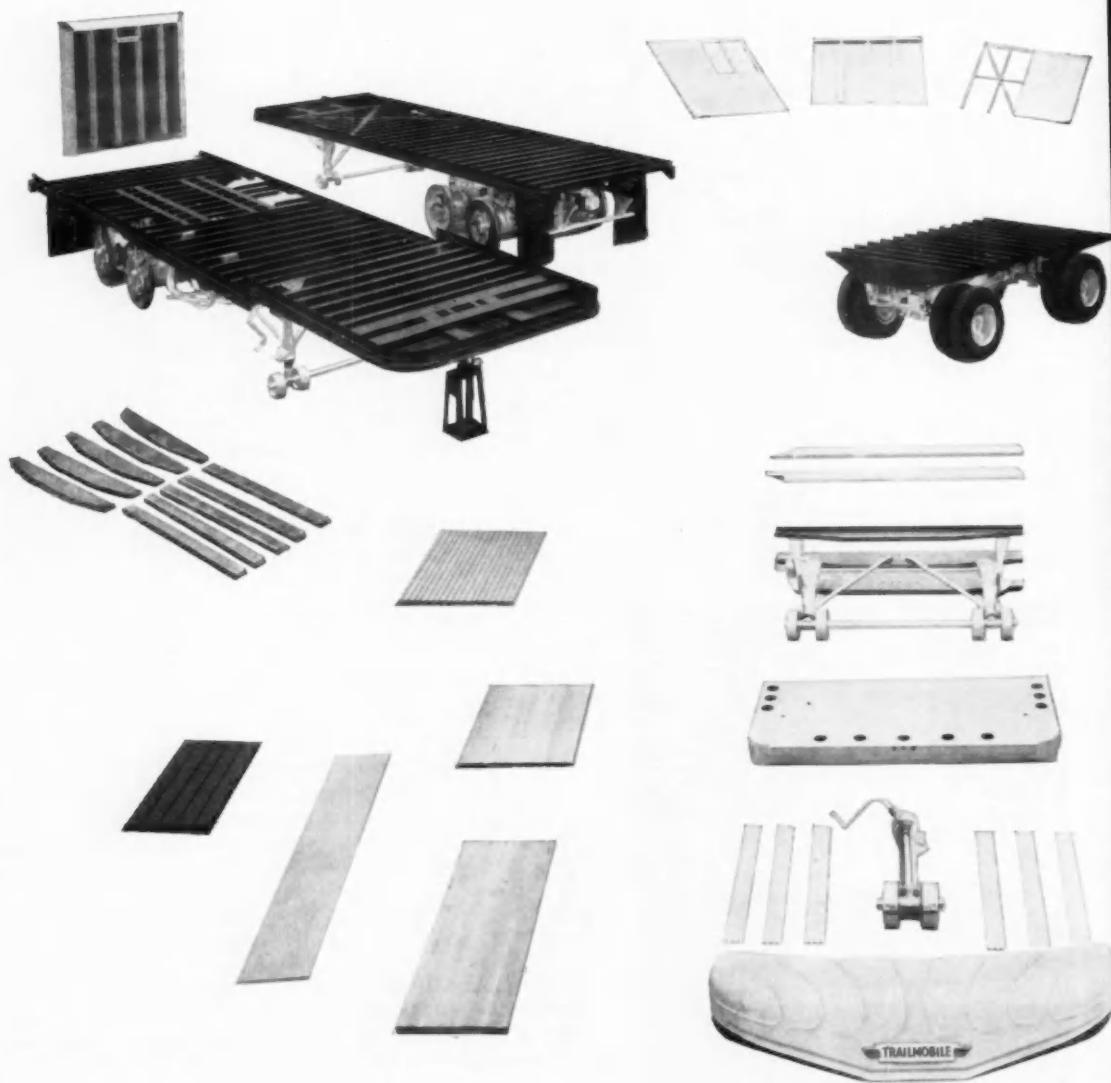
Then Hearin installed a Malsbary 300 HPC (high pressure combination) cleaner. It delivers 325° F. solution at 400 psi., pumps from 240 to 1200 gallons hourly, depending on temperature used. Its hot, explosive blast cleans single-compartment tanks in 30 minutes—old machine required 3-4 hours. Entire rig—tractor and trailer—can be cleaned in 3-6 hours; old machine took 6-10 hours. "And cleaning efficiency is so high we average only one truck monthly returned for recleaning, against six in the past."

**Money-Back Offer**—See for yourself; buy a 300 or 500 HPC cleaner from your Malsbary dealer. If after 10 days' use you aren't completely satisfied that it reduces truck cleaning costs, return it and our dealer will refund your money. Call him now...or write us for further details and helpful truck cleaning data.

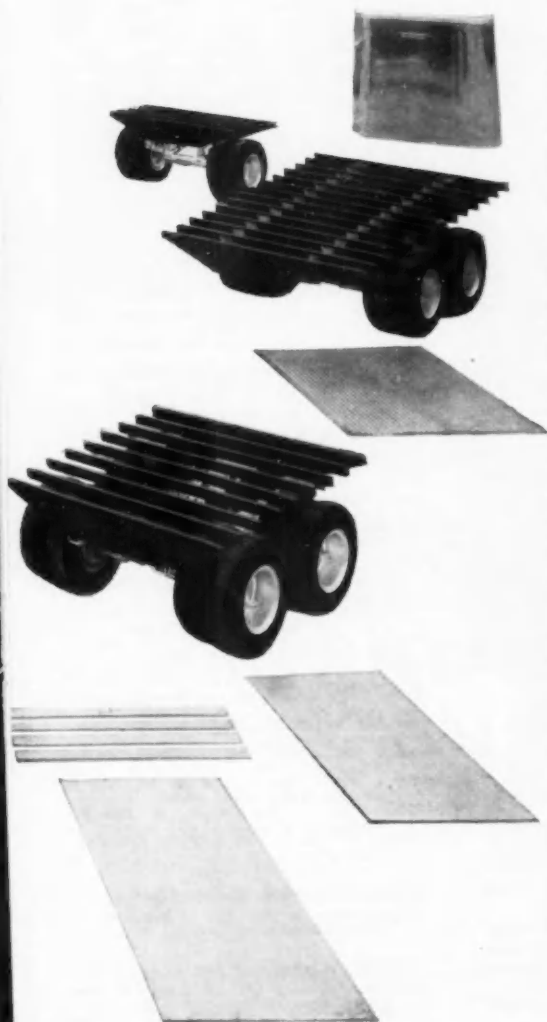
113



Room K-11 845-92nd Ave., Oakland 3, Calif.







## how can an unmade trailer depreciate?

It can't! No more than a bolt of cloth can "wear out".

At best, a mass produced field stock trailer is only as new as the idea a design engineer had months ago when the trailer was built. Trailmobile CID\* trailers are always as new as the idea you have *today*. This is because your CID trailer is manufactured to *your* specifications from *your* choice among the wide array of standardized components pictured above.

That's why you always receive *full value* in a Trailmobile trailer. A CID trailer never depreciates *before* you own it. So, by starting with the timeless CID concept you can design your own *new* trailer—one out of a possible 192,000 "models" yet to be born.

\*Customer Individualized Design

TR-660

### TRAILMOBILE INC.

Cincinnati 9, Ohio • Berkeley 10, Calif. • Longview, Texas • Springfield, Mo.

## wheels to wipers

CCJ's Product Directory

### WHEELS, Trailer

Aluminum Co. of America, 1501 Alcoa Bldg., Pittsburgh 19, Pa.  
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.  
Dayton Steel Foundry Co., P. O. Box 1022, Dayton, Ohio.  
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Single and dual pneumatic, malleable iron.)  
French & Hecht, Div. Kelsey-Hayes Co., Third & Farnam St., Davenport, Iowa.

Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.  
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast steel.)  
Homan & Co., 511 Reading Rd., Cincinnati 15, Ohio. (Aluminum and steel.)  
Kelsey-Hayes Co., 3600 Military Ave., Detroit 32, Mich.  
Motor Wheel Corp., 735 E. Saginaw St., Lansing 3, Mich. (Disc steel.)  
Permold Co., 820 W. Liberty St., Medina, Ohio. (Aluminum.)

### WHEELS, Vehicle, Cast Metal

Aluminum Co. of America, 801 Gulf Bldg., Pittsburgh 19, Pa.  
Clark Equipment Co., Buchanan, Mich. (Truck and bus.)  
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio. (Spoke types.)  
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.  
Erie Malleable Iron Co., Automotive Wheel Div., 609 W. 12th St., Erie, Pa.  
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.

### WHEELS, Vehicle, Disc

Aluminum Company of America, Pittsburgh 19, Pa.  
Budd Co., 2450 Hunting Park Ave., Philadelphia 32, Pa.  
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.  
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.

### WINCHES, Truck

Adams Engineering Co., 31711 Solon Rd., Solon, Ohio.  
Beebe Bros., 2724 Sixth Ave., S., Seattle 4, Wash. (Hand.)  
Braden Winch Co., Box 547, Broken Arrow, Okla.  
Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio (Distributor.)  
Fulton Co., 1912 S. 82nd St., Milwaukee 14, Wis. (Hand.)  
Gar Wood Industries, Inc., Wayne, Mich. (Power.)  
Highway Trailer Co., 405 E. Fulton St., Edgerton, Wis. (Power.)  
Holan Corp., J. H., 4100 W. 150th St., Cleveland 11, Ohio. (Power.)  
Hubbard Mfg. Co., Farmland, Ind. (Power.)  
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hand.)  
Lufkin Foundry & Machine Co., Lufkin, Tex. (Power.)  
Manley Div., American Chain & Cable Co., 1100 E. Princess St., York, Pa.  
Maxi Corp., 1584 E. 20th St., Los Angeles 54, Calif.  
Ohio Hoist & Mfg. Co., 321 S. Beaver St., Lisbon, Ohio (Hand.)  
Pacific Car & Foundry Co., Fourth & Factory Sts., Renton, Wash. (Power.)  
Ramsey Winch Mfg. Co., Box 3035, 5531 E. Admiral Place, Tulsa 2, Okla.  
Saugen Derrick Co., 3101 Grand Ave., Chicago 22, Ill.  
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.  
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, L. I., N. Y. (Power.)  
Truck Engineering Co., 1285 W. 70th St., Cleveland 2, Ohio.  
Tulsa Winch Div. of Vickers, Inc. 815 E. First St., Tulsa, Okla. (Power.)  
Utility Tool & Body Co., 151 E. 16th St., Clintonville, Wis.  
Watson Co., H. S., 1316 67th St., Emeryville, Calif. (Hand.)

### WINDOWS, Truck, Sliding Rear

Barber's Glass & Mfg. Co., 18 Harrison, Box 588, Oklahoma City, Okla.

### WIPERS, Windshield, Air

National Pneumatic Co., 125 Amory St., Boston 19, Mass.  
Sprague Devices, Inc., 500 Huron St., Michigan City, Ind.  
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (For trucks and buses.)

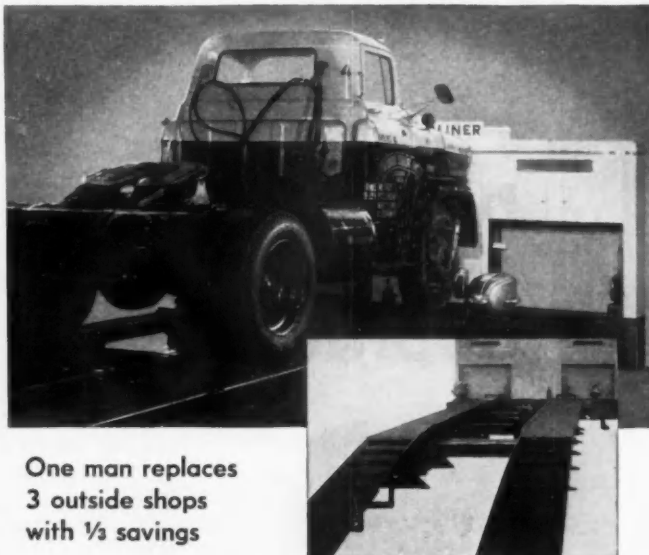
### WIPERS, Windshield, Electric

American Bosch Div., American Bosch Arms Corp., 3664 Main St., Springfield 7, Mass.  
Delco Appliance Div. General Motors Corp., 391 Lyell Ave., Rochester 1, N. Y.  
Electric Auto-Lite Co., Toledo 1, Ohio.  
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.  
Redmond Co., Owosso, Mich.  
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.  
Storm-King Products Co., 148-08 95th Ave., Jamaica 35, N. Y.

### WIPERS, Windshield, Vacuum

Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

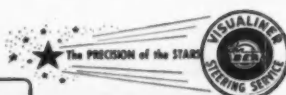
## John Bean FRAME MASTER cuts fleet operator's costs and down time



One man replaces  
3 outside shops  
with 1/3 savings

Since installing John Bean's Frame Master, Howard Sober, Inc., Lansing, Mich., one of the nation's largest vehicle haulway and driveway organizations, has one operator handling the frame work and maintenance checks originally performed by three outside shops. Trucks pulled in for checking are back on the road one to two days sooner.

With their combination John Bean truck and passenger car Frame Straightener-Visualiner installation, Howard Sober has cut wheel alignment and frame straightening costs by as much as 1/3. What's more, regularly scheduled alignment checks mean increased tire mileage for additional savings and an extra margin of safety for their fleet of over 300 vehicles.



**John BEAN** LANSING 4, MICHIGAN

Division of Food Machinery and Chemical Corporation

You'll be interested in how economically you can set up your own John Bean truck wheel aligning and frame straightening department. WRITE FOR DETAILS TODAY.

USE  
THIS  
COUPON

send me  
data on

[ ] ON-THE-TRUCK Wheel  
Balancer  
[ ] John Bean Truck and  
Passenger Car Aligners

[ ] Visualiner Modernizers  
for existing racks  
[ ] John Bean Combination  
Frame Straightener - Aligner

ATTACH COUPON TO YOUR LETTERHEAD OR A POST CARD

# WINSLOW Full-Flow FILTERS

Case History Report No. 38 Shows Why Engines

Protected by WINSLOW FILTERS Last Longer

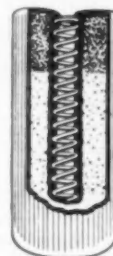


## CONTINENTAL TRAILWAYS installs WINSLOW FILTERS on DIESEL BUSES

Following more than two years of exhaustive testing, Winslow full-flow Filters, Model 8-931-E, are installed on Cummins JT engines that power interstate buses for Continental Trailways.

As they have for many other major fleets, Winslow Filters reduce engine wear and lower maintenance costs for Continental Trailways. This modern full-flow filtration increases the useful life of lube oil and of filter elements, and protects engines under all conditions of service and temperature.

*\*CP is fully protected by patents and trademarks*



### CP\* FILTRATION

Winslow patented CP\* (Controlled Pressure) elements are designed to continuously self-adjust the pressure within the filter and allow for a full stream of filtered oil without opening by-pass valves. This is accomplished through the dual flow capacity, with two types of material in the same element.

# WINSLOW

ENGINEERING & MANUFACTURING COMPANY

4069 Hollis Street, Oakland, California

W-2595-A



**"THIS LUBRICANT  
CUT OVERHAULS  
IN HALF"**

—says WESTERN AUTO  
TRANSPORTS, INC.

"Operating over 200 tractors and 200 trailers from Detroit to the West Coast, we encounter temperatures from 120° above across the desert to 40° below in the mountains of Colorado. We have found that with LUBRIPLATE our wheel bearing packing mileage has tripled. Since using Lubriplate A.P.G.-90 in our transmissions and differentials, we are getting double the mileage between their overhauls."

**REGARDLESS OF THE SIZE AND  
TYPE OF YOUR MACHINERY,  
LUBRIPLATE LUBRICANTS  
WILL IMPROVE ITS OPERATION  
AND REDUCE MAINTENANCE**

#### LUBRIPLATE LUBRICATION



**MAKES CARS  
AND TRUCKS  
RUN BETTER  
AND LAST  
LONGER**

LUBRIPLATE H.D.S.  
MOTOR OIL . . . THE OIL  
THAT NEEDS NO  
ADDITIVES

For nearest LUBRIPLATE distributor see Classified Telephone Directory. Send for free "LUBRIPLATE DATA BOOK" . . . a valuable treatise on lubrication. Write LUBRIPLATE DIVISION, Fiske Brothers Refining Co., Newark 5, N. J. or Toledo 5, Ohio.



## wrenches

WIRE, IGNITION, STARTING AND LIGHTING. See Cable, Ignition, Starting and Lighting

WRECKERS, See Cranes, Service Truck

#### WRENCHES, Portable Electric

Albertson & Co., 2100 Lowell Ave., Sioux City 3, Iowa. (Impact.)  
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York 17, N. Y. (Impact.)  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.  
Mall Tool Co., 7740 S. Chicago Ave., Chicago 19, Ill.  
Millers Falls Co., Greenfield, Mass.  
Snap-on Tools Corp., 8046 28th Ave., Kenosha, Wis.  
SpeedWay Mfg. Co., 1834 S. 52nd Ave., Cicero 50, Ill.  
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.

#### WRENCHES, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.  
Buckeye Tools Corp., 5005 Springboro Pike, Dayton 9, Ohio.  
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.  
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.  
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y. (Impact.)  
Keller Tool Div., Gardner Denver Co., 1323 Fulton St., Grand Haven, Mich.  
Master Pneumatic Tool Co., Krick Rd., Bedford, Ohio.  
Rotor Tool Co., 23600 Lakeland Blvd., Cleveland 32, Ohio.  
Thor Power Tool Co., Prudential Plaza, Chicago 1, Ill.

#### WRENCHES, Torque

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.  
Apeo Mossberg Co., Lamb St., Attleboro, Mass.  
Armstrong Bros. Tool Co., 5200 W. Armstrong Ave., Chicago 30, Ill.  
C. & G. Wheel Pulver Co., Scio, N. Y. (Pres.)  
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa.  
Chicago Tool & Kit Mfg. Co., 230 N. Jefferson St., Chicago 6, Ill.  
Cornwell Quality Tools Co., Mogadore, Ohio.  
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.  
Fairmount Tool & Forging Inc., 10611 Quincy Ave., Cleveland 6, Ohio.  
Hastings Mfg. Co., N. Hanover St., Hastings, Mich.  
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio.  
Jo-Line Tools Inc., 8442 Otis St., South Gate Cal.  
Kent-Moore Organization, Inc., 1501 S. Jackson St., Jackson, Mich.  
New Britain Machine Co., Hand Tools Div., South St., New Britain, Conn.  
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.  
P & C Tool Co., Box 5926, Milwaukie, Ore.  
Proto Tools, 2209 Santa Fe Ave., Los Angeles 54, Calif.  
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.  
Richmont, Inc., 922 S. Myrtle Ave., Monrovia, Calif.  
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.  
Sturtevant Co., P. A., Addison, Ill.  
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.  
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.  
Wilson Inc., E. R., Arcade, N. Y.

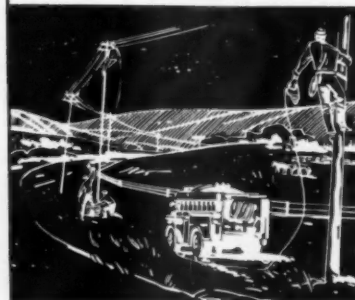
WRENCHES, TIRE, See Tools, Tire

#### WRENCHES, Two-Speed Axle

Automotive Service Tools, Inc., Lansing, Mich.

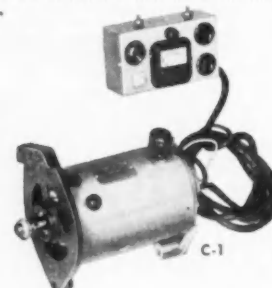
WRIST PINS, See Pins, Piston

## MOBILE ELECTRIC POWER



**BOTH AC & DC . . . a simple installation on your present generator bracket turns your car, truck or tractor into a mobile power unit that can be used anywhere!**

- 1200 Watts - 110 Volts - 60 Cycle - Continuous output AC.
- 6 or 12 Volts - 35 Amps DC.
- Up to 70 Amps DC with simple PIGGY-BACK application.
- DAC-VAC . . . automatically controls the COMBINATOR when the tool or appliance is turned on . . . is available as an accessory.



#### ELECTRONICALLY, DYNAMICALLY & STATICALLY BALANCED

PLUG INTO the Control Panel, FLIP THE SWITCH and you have instant power for Electric Power Tools, Lights, 2-Way Radios, Mobile Telephones, Hot Plates, Appliances, Heating and Refrigeration Units, in fact any tool or appliance that normally uses house or shop current.

Write for More Details and Name of  
Nearest Dealer-Distributor



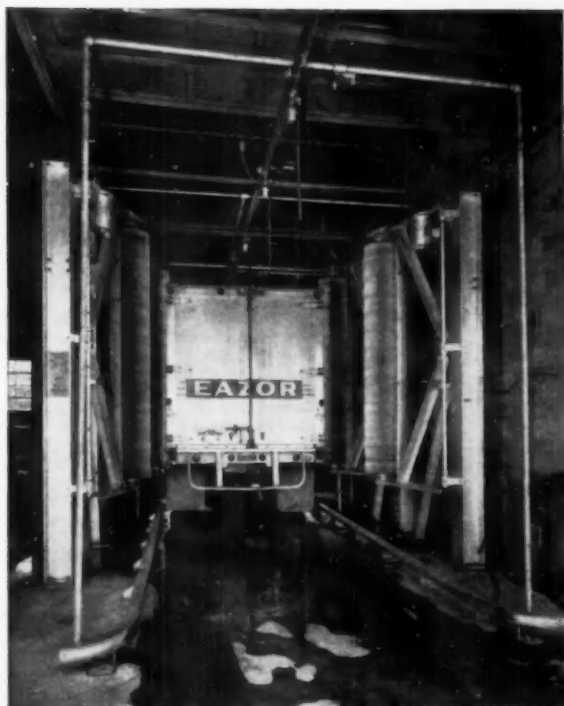
**KURLAND  
COMBINATOR**

AC DC GENERATOR  
SALES DIV. • 1134 BDWY. • DENVER 3, COLO.



# WASHERS

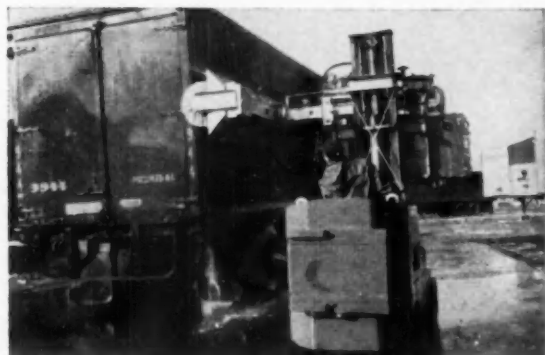
## STATIONARY and PORTABLE



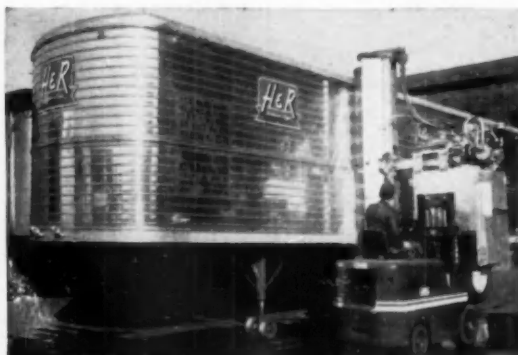
Stationary four brush automatic trailer washer installed at Eazor Express, Inc. Pittsburgh, Pa.



New low priced Junior Wilson Convertible Washer for washing vertical and/or horizontal ribbed trailers. Four foot brush can be swivelled to either vertical or horizontal position.



All States Freight Lines' Wilson Convertible Washer (9' brush) washing vertical ribbed trailers at Akron, Ohio.



Standard Wilson Washer for smooth sided or horizontally ribbed trailers. 135 in daily operation.

*Ask for Bulletin 107*

MANUFACTURED EXCLUSIVELY BY

# ROSS AND WHITE COMPANY.

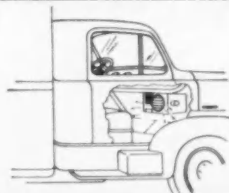
CHICAGO DAILY NEWS BUILDING 6, CHICAGO

# HUNTER

Transport Heating  
and Refrigeration

## CAB HEATERS

safe, sure heat  
at low cost  
for gas or diesel rigs



- shirt sleeve warmth in coldest weather
- gasoline-burning, thermostatically controlled
- operate independent of vehicle engine
- eliminate costly engine idling
- sub-zero starting, unfailing combustion
- conform to all ICC regulations
- economical, compact, easy to install



MODEL UH-47



Write for descriptive literature and prices  
**HUNTER MANUFACTURING COMPANY**  
30525 AURORA ROAD, SOLON, OHIO

## late listings

### Too Late to Classify

- Barrett Equipment Co., 21st & Cass Ave., St. Louis 6, Mo.—Strippers, brake lining.
- John Bean Div., Food Machinery and Chemical Corp., Lansing 4, Mich.—Balancers, crankshaft.
- Eis Automotive Corp., Middletown, Conn.—Tools, brake cylinder cleaning and polishing; Tools, brake spring removing and replacing.
- Gledhill Road Machinery Co., Galion, Ohio—Snow plows.
- Globe Hoist Co., E. Mermaid Lane at Queen St., Philadelphia 18, Pa.—Dollies, transmission.
- Imperial Brass Mfg. Co., 6300 W. Howard St., Chicago 31, Ill.—Faucets, drum.
- Kraft Div. General Tire & Rubber Co., Englewood and Holmes, Akron 9, Ohio—Tire tread service.
- Permatex Co., Inc., Huntington Station, N. Y.—Solvents, oil, carbon and grease removing.
- Signal-Stat Corp., 523-39 Kent Ave., Brooklyn 11, N. Y.—Switches, stop light.
- Snap-On Tools Corp., 8026-K 28th Ave., Kenosha, Wis.—Cabinets, accessories and parts.
- Tire Service Inc., 1210 Exchange Bank Bldg., Dallas 35, Texas—Signals, low air pressure, tire.
- Turner Halsey Co., 40 Worth St., New York, N. Y.—Covers, truck.
- Universal Lubricating Systems, Inc., 642 Allegheny Ave., Oakmont, Pa.—Lubricators, hand; Cleaners, engine, chassis and fender.
- Wix Corp., Gastonia, N. C.—Cleaners, crankcase.

## HOW TO SAVE MONEY



## EVERHOT TIRE BRANDER

- 1 Know the exact mileage you get on each tire.
- 2 Know the cost per mile of every tire in service.
- 3 The EVERHOT Tire Mileage Record System gives you complete details on each tire.
- 4 You combine the EVERHOT System of branding and record keeping. You know at a glance where and how your tire costs can be reduced.
- 5 It's simple to check every tire in storage once they are branded.
- 6 Branding and record keeping assures your receiving full use of every dollar invested in tires.

### Brand 'em to keep track of them

Here's the one perfect foolproof way of having a daily, factual record of your tires. It is protection that saves many tire dollars for you—it's a small investment with big returns. This tire brander keeps ten numbers hot at all times—heats quickly—brands continuously.

Read the six points listed—you get all of these benefits. Face of the disk will hold individual letters or plates for code marking or initialing. Write for details and FREE sample of tire mileage record forms. Dept. CC-57

**EVERHOT MFG. CO. • MAYWOOD, ILLINOIS**

# November News Roundup

## At the ATA Convention

Guy W. Rutland, Jr. (Motor Convoy Co., Atlanta, Ga.) was elected Association president. He succeeds R. C. Williams who becomes chairman of the ATA Board of Directors. Other officers elected include E. W. Krause (Security Cartage, Fort Wayne, Ind.)—first vice president, R. S. Morre (Los Angeles-Seattle Motor Express, Oakland, Cal.)—second vice president, J. B. Godfrey, Jr. (Great American Transport, Detroit, Mich.)—third vice president, G. B. Holman (George B. Holman & Co., Rutherford, N. J.)—fourth vice president. ATA Secretary H. L. Gormley (Keystone-Lawrence Transfer & Storage, New Castle, Pa.) and ATA Treasurer J. M. Akers (Akers Motor Lines, Gastonia, N. C.) were re-elected.

## Elected Vice Presidents

at large were A. E. Cudlipp (Lufkin Foundry, Lufkin, Texas), R. H. Cutler (Texas-Arizona Motor Freight,

(TURN TO PAGE 305, PLEASE)



"Have y'all seen the October Commercial Car Journal?" asks one of Cici Jay's southern cousins at Truck Body and Equipment Assn.'s convention last month in Atlanta, Ga. Capital Air Lines flew down advance copies of CCJ's special body issue, had a special messenger (that's her above) make delivery on the first day of the meeting. Getting their first view of the issue are Boyertown (Pa.) Body Works' representatives Tom Gottshall, Jay Dugan, Paul Hafer and Lloyd Fritz



ATA National Truck Rodeo winner in the five-axle combination class was J. H. Davis, Chippewa Motor Freight (shown left). Other winners were Straight truck—for the third time, A. L. Harper (Super Service Motor Freight). Three-axle combination—H. I. Kennedy (National Transit Corp.), four-axle combination—W. J. Klein (Mason & Dixon Lines). The State

Assn. Team Trophy was awarded Pennsylvania's three drivers (H. J. Pudliner—Motor Cargo, E. R. Steffy—Lancaster Transportation and W. J. Kline—Mason & Dixon Lines, shown here with their state association trophies.) The Charles G. Morgan, Jr., Memorial award for best exemplifying the phrase "Gentleman of the Highways" went to Leon Hall, Tullahoma, Tenn.

## For **THE STOP** that **COUNTS!**

For over 50 years SCANDINAVIA has been identified with quality products basically designed to provide top performance! SCANDINAVIA ZT-MOLDED COMBINATION BRAKE BLOCKS, for example, are indicative of heavy duty performance especially recommended where service is abnormally severe. If you are a discriminating fleet operator looking for top performance at lowest possible cost per mile, test-install

**SCANDINAVIA**



**BRAKE  
BLOCKS**

**• SCANDINAVIA •**

**BRAKE  
LININGS**

DIVISION OF SCANDINAVIA BELTING COMPANY, 744 BROAD ST. (P.O. BOX 464) NEWARK 1, N. J.  
WAREHOUSE: 250 CENTRAL AVE., NEWARK 1, N. J. • PLANT: CHARLOTTE 1, N. C.  
BRANCHES IN CAMBRIDGE, MASS. AND CLEVELAND, OHIO

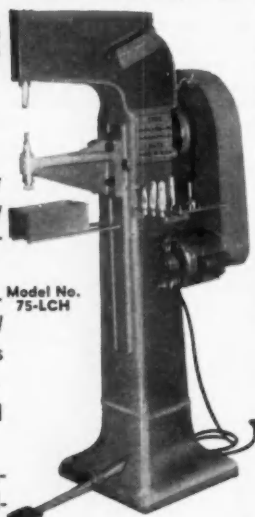
## **NEW . . . STAR**

### **SUPER HEAVY DUTY RIVETER and BRAKE RELINER**

Designed especially for easy handling of heavy-duty trucks, bus and road equipment riveting jobs.

- Makes easy work of clinching tubular rivets of all sizes. Optional clinchers available for solid rivets.
- Heavy-duty, full-cast head and base.
- Advanced design self-compensating clutch—no adjustment needed for wear.
- Full 11½" throat depth.
- Powerful riveting action supplied by 60-lb. fly wheel.

Model No.  
75-LCH



Ask your jobber or write for complete catalog information

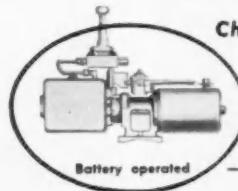
**STAR MACHINE & TOOL CO.**

233 SIXTH ST., S.E. • MINNEAPOLIS 14, MINN.

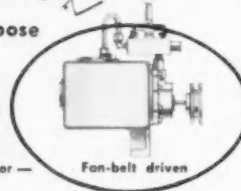
## **Lift Snow Plows . . . automatically!**



Choose



Battery operated



Fan-belt driven

### **MONARCH POWER HYDRAULIC CONTROLS**

Snow removal is fast, dependable and safe with Monarch Power Hydraulic Controls. Cab-controlled for one-man instant action, the Monarch zips snow plows into operation with ease and speed. See your dealer or write for full details.

**MONARCH ROAD MACHINERY COMPANY**  
1331 MICHIGAN ST., N.E. — GRAND RAPIDS 3, MICHIGAN



## Nov. News Roundup

Continued from Page 303

El Paso, Texas), G. V. Eastes (Lee & Eastes, Seattle, Wash.), W. M. Frantz (Eastern Motor Express, Terre Haute, Ind.), H. J. Horan (Crowe & Co., Waterbury, Conn.), J. A. Kramer (Rabiger-Kramer, Philadelphia), M. M. Krupinsky (Union Freightways, Omaha, Nebr.), R. B. Lytel (Consolidated Freightways, Menlo Park, Cal.), O. B. Maxwell (O. B. Maxwell Co., Cincinnati, Ohio), W. W. Ward (Ward Trucking, Altoona, Pa.), H. D. Winship (Georgia Highways Express, Atlanta, Ga.) and C. G. Zwingle (Pacific Intermountain Express, Oakland, Cal.)

### Among the Conferences,

L. D. Rahilly (Interstate Motor Freight System, Grand Rapids, Mich.) was elected Regular Common Carrier Conference chairman. New chairman of the Private Carrier Conference is R. J. Van Liew (Blue Bell, Inc., New York City). Elected chairman of the Contract Carrier Conference is C. J. Williams (Hillside Transit Co., Milwaukee, Wis.). Automobile Transporters Conference re-elected Lloyd Lawson (E&L Transport, Dearborn, Mich.) as its chairman. Orrin Fraley (Consolidated Freightways, Men-

lo Park, Cal.) is elected chairman, Munitions Carriers Conference.

### Weather have you worried?

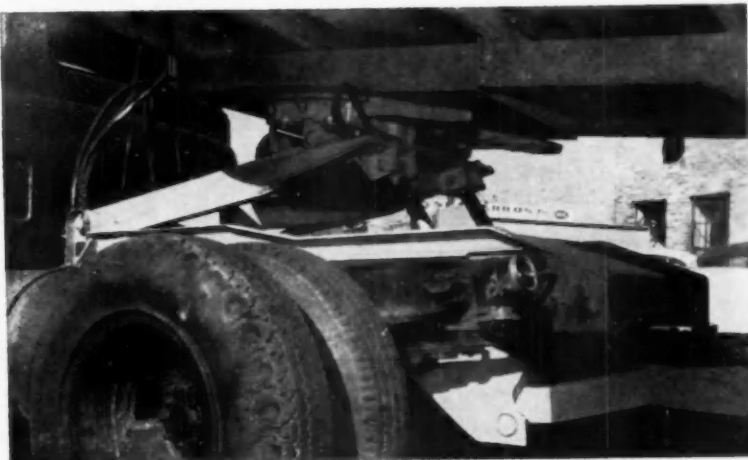
You can be your own weatherman, says Pennsylvania State University. The school is offering a course on weather by mail. In eight lessons the fleetman learns about temperatures, frosts, rain and snowfall, winds, clouds and violent storms. Write to Farm Study Courses, University Park, Pa., for enrollment.

### Boy Scout safety

program got a \$5000 boost last month when John V. Lawrence, managing director of American Trucking Assns., presented a check to National Boy Scout Director of Health and Safety Service. The money is to be used in the Scouts' "1958 Safety Good Turn" program.

### Aero Mayflower Transit

Co. has produced a 25-min. film of (TURN TO NEXT PAGE, PLEASE)



## ... POWERFUL ...

### BUILT WITH A RESERVE OF POWER TO WITHSTAND YEARS OF HARD USE

Many users have made comparison tests and have found the Pollard 5th Wheel superior.

The Pollard offers a choice of Fruehauf or Holland 36" cast steel 5th wheel.

No mutilation of chassis in making the installation. Trailer king-pin remains forward of axle center when elevated.

9 3/4" mounting height eliminates necessity of slamming under trailer front.

*Write for Engineer's Report  
on Pollard's Outstanding Features*

**C. E. POLLARD CO.**

14571 Schaefer Rd.

Detroit 27, Mich.



## 5TH WHEEL HYDRAULIC PLATFORM



When truckers feel a loss while having their tractors converted to diesel by W. B. Lawrence, Syracuse, N. Y., the "friend indeed" is close at hand. Lawrence, a Cummins Engine Co. distributor, lets them have a "loaner" tractor to use while the conversion is being made. The customer pays for fuel, lubricating oil, grease and other maintenance items while he borrows the tractor but no other charge is made.

## Nov. News Roundup

Continued from Page 305

the trip across the Atlantic Ocean by the Mayflower II this year. Free from a commercial message by Aero Mayflower, the film is being made available to schools, clubs, civic groups, fraternal organizations, television outlets and for showings sponsored by Aero Mayflower agents throughout the country. Aero May-

flower participated in the sailing of the replica almost from its conception in England.



As a service to fleet operators, recent major laws affecting commercial

vehicle operation, both bus and truck, are digested here. As reported the summary serves only as a guide so the fleetman may check the exact wording of the law through his state truck association or state capital to see how it affects his operation.

**Alabama**—The authority of Madison County to impose gasoline tax was amended in H918.

**Maryland**—Reciprocity agreements with New Jersey and the District of Columbia have been signed exempting trucks and buses licensed in those jurisdictions from the interstate fuel use tax that became effective Oct. 1. The tax was enacted by the 1957 legislature and imposes a six-cent per gal tax on motor fuel consumed on Maryland highways regardless of where purchased. The legislature authorized waivers to any other state which agreed not to impose a similar tax on Maryland-licensed vehicles.

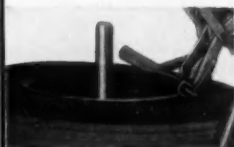
(TURN TO PAGE 309, PLEASE)

# YOU NEED POWER

## To Change Tires

**POWER** gives you **ALL** these advantages:

- ★ Makes easy work of 14" and other hard to change tires.
- ★ Saves employees energy and time because power does the hard work.
- ★ No bolting down, permits using changer inside or outside.
- ★ Electric motor drives mount-demount tool.
- ★ Foot switch controls power.
- ★ No tools—handle tire with both hands.
- ★ Eliminates long bars, handles, tool racks.
- ★ Saves space—operates against wall or in corner.
- ★ Power is Penny Cheap.
- ★ Impresses customer, builds confidence, increases sales.



Wide circle breaker shoes top and bottom (top shoe illus.) break tightest beads easily.

Power leaves both of operator's hands free to handle tire, makes job fast and easy.



The speed and safe handling of tires with a modern BISHMAN Electric Tire Changer holds old customers and attracts new ones.

Your equipment jobber will give you complete information and arrange for you to see the BISHMAN Electric Power Tire Changer in operation. Ask him TODAY about the BISHMAN #880 or #880-U.

# Bishman

Ask also about the BISHMAN #932 Electric Tubeless Truck Tire Changer.

**MANUFACTURING CO.**  
ROUTE 2, OSSEO, MINN.

### Delaware Valley's Finest



Finest of the finest truck drivers in Pennsylvania, Delaware and New Jersey are members of this group. Winners of company competitions in the three states, they met recently for a five-day Tri-State Truck Safety Rodeo in Hershey, Pa. Rodeo winners, from left, are: Elwood T. Whittington, single axle, Wilmington, Del., Wooleyhan Transport Co.; Melvin L. Cox, tandem axle, Stanton, Del., Wooleyhan Transport Co.; Robert Currie, straight truck, Milford, Del., Masten Transportation Co.; Edward Philkill, tandem axle, Milford, N. J., Chemical Tank Lines, Inc.; Ben C. Spain, straight truck, Rochelle Park, N. J., Mason and Dixon Lines; Philip De Carlo, single axle, Keansburg, N. J., Motor Cargo, Inc.; William Klein, tandem axle, Oreland, Pa., Mason and Dixon Lines; Howard Pudliner, single axle, Philadelphia, Motor Cargo, Inc.; and Earl R. Steffy, Jr., straight truck, Lititz, Lancaster Transportation Co. Spain was named grand champion.



**DRY TRANSIT**—Leaf tobacco required the utmost protection and care to safeguard it against spoilage during transportation. Especially damaging to tobacco is moisture. For this reason, the Winston Leaf Tobacco & Storage Co., Inc. of North Carolina utilize this special truck cover for transporting baskets of perishable leaf tobacco from the local warehouse floors. The side curtains are meticulously tailored and so arranged that they can be rolled up or opened individually as conditions may require. Possibility of exposure is virtually eliminated by means of these unique covers manufactured by Dize Tent and Awning Company from Mount Vernon Duck.

This is another example of how fabrics made by Mount Vernon Mills, Inc. and the industries they serve, are serving America. Mount Vernon engineers and its laboratory facilities are available to help you in the development of any new fabric or in the application of those already available.

UNIFORMITY  
Makes The  
Big Difference  
In Industrial  
Fabrics



*Mount Vernon Mills, inc.*  
A LEADER IN INDUSTRIAL TEXTILES

**TURNER HALSEY**  
COMPANY  
*Selling Agents*

Main Office and Foreign Division: 40 Worth Street, New York, N. Y.  
Branch Offices: Chicago • Atlanta • Baltimore • Boston • Los Angeles

**Here's a  
time clock  
your trucks  
can punch!**



*Gives a minute-by-minute check-up!*

**Shows total travel time  
Shows when trucks are  
idle and for how long**

It's foolproof! It can save you thousands of dollars. Here's the business-like way to know what service you are getting from every vehicle. It gives you a sound basis for establishing pay rates and for checking up on overtime and scheduling.



*This "Time Clock" is called*  
**SERVIS RECORDER**

It makes a clear record on easy-to-read permanent charts. Motion of your truck activates the recorder. No mechanical hook-up is involved. *It couldn't be simpler or more dependable! Write today!*

**THE SERVICE RECORDER COMPANY**  
1013F Rockwell Avenue • Cleveland 14, Ohio

**Fast tool repairs for  
*Black & Decker*® tool owners**



**Genuine  
*Black & Decker*®  
PARTS & SERVICE  
available near you**  
★ Free  
Inspection  
★ Standard  
B&D Guarantee



Look in Yellow Pages  
under "Tools Electric"  
for address of nearest  
FACTORY SERVICE BRANCH

Or write direct for address of nearest branch to:

**Dept. S4611, TOWSON 4, MD.**



***Black & Decker*®**  
QUALITY ELECTRIC TOOLS

**SAVE Time, Labor and Money**



**Morrison SERVICE BODIES**

**BONDERIZED**  
... for extra  
protection  
against rust  
and corrosion.

- Speed service calls — take your workshop to the job.
- Tools and parts are safe from weather and theft—easy to load, easy to find, easy to inventory.
- For any make  $\frac{1}{2}$  -  $\frac{3}{4}$  - 1 -  $1\frac{1}{2}$ -ton chassis—easy to mount or transfer.
- Complete line of Service Accessories engineered to your specific needs.

CALL OR WRITE for full information and the name of your nearest Morrison Service Body Distributor.

**MORRISON SERVICE BODY DIVISION**  
Morrison Steel Products, Inc.

P.O. Box 3003 • 681 Amherst Street • Buffalo 7, New York





## Nov. News Roundup

Continued from Page 306

Similar agreements are currently being negotiated with Delaware and Pennsylvania.



Jack Cole Co., Birmingham, Ala.—to 141 drivers with accident-free records for the past year including four 12-year awards.

Maloney Concrete Co., Inc., Washington, D. C.—to 53 concrete mixer and dump truck drivers, including a 23-year award to Aubrey Lacey.

For the third time The Western Express Co., Cleveland, Ohio, has been presented with the "President's Trophy" by Transportation Underwriters, Inc. in recognition of a million consecutive miles of accident-free operation.

Terminal Transport Co., Inc. Atlanta, Ga.—to 15 drivers, six of whom had completed over 10 years of accident-free driving.

Herr's Motor Express, Quarryville, Pa.—to 27 drivers with records up to six years.

C. & J Transport, Inc., Milwaukee, Wis.—to 30 drivers with records of up to nine years.

Yale Transport Corp., New York City—to drivers including two with 25 years safety records.

Perkiomen Transfer, Inc., Allentown, Pa.—to 31 drivers.

Fox & Ginn, Inc., Bangor, Me.—to five over-the-road drivers with from 10 to 17 years each of accident-free driving.

Transportation Corporation of Indiana, Cincinnati, Ohio—to 55 drivers with 335 combined years of safe operation representing 8,148,848 miles of no-accident driving.

(TURN TO PAGE 311, PLEASE)

## THERE'S A LUBER-FINER MODEL FOR EVERY TYPE OF ENGINE FOR EVERY TYPE OF OIL!

### ONLY A GENUINE

*Luber-finer*

### PLUS A GENUINE LUBER-FINER PACK

CAN GIVE THE EXCLUSIVE PATENTED FILTERING PROCESS THAT HAS MADE LUBER-FINER THE Standard Of The Industry Since 1936



Model 750-C



Model 200-S



Model 135-S



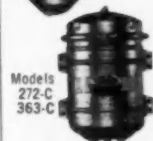
Model 78



Model 500-C



Models F-155 F-120



Models 272-C 363-C



Models 750-2C 750-3C

**MODELS 78, 135-S, 200-S**, featuring single-bolt lid, screw-in type pack, and overall compact design for use where space is limited. These Models provide the ultimate in filtration for passenger cars, small trucks and tractors, and other similar engines up to 5-quart, 6-quart, and 7-quart crankcase capacities.

**MODELS 272-C and 363-C**, featuring the Luber-finer single-bolt lid clamp, O-Ring lid gasket, screw-in type pack, and rugged construction throughout. Designed for heavy-duty service on gas, gasoline or diesel engines up to 3-gallon and 4-gallon crankcase capacities.

**MODELS 500-C and 750-C**, featuring the Luber-finer single-bolt lid clamp O-Ring lid gasket, large-capacity packs, and extra rugged construction to withstand the most severe service. Designed for use on gas, gasoline or diesel engines up to 5-gallon and 8-gallon crankcase capacities. Also

widely used on fuel lines, hydraulic oil systems, and many other industrial applications.

**MODELS 750-2C & 750-3C**, featuring the Luber-finer single-bolt lid clamp, O-Ring lid gasket, and multiple packs for extra large capacity. Available with either wall or floor mounts for industrial use on engines up to 35-gallon sump, fuel lines up to 15 GPM, hydraulic oil systems up to 450 gals. For larger capacities, two or more Units can be connected in parallel.

**MODELS F-120 and F-155**, for gasoline and diesel fuel lines on mobile, stationary, or marine applications. Extremely efficient in removing impurities and contaminants from fuel. Single Units will handle flow rates from 0.5 to 1.0 GPM on suction or gravity flow. For larger capacities, connect two or more Units in parallel, or install on pressure-side of fuel pump.

GENUINE LUBER-FINER PACKS available in two types...

**DIESELPACK** — Expressly designed and recommended for use with all detergent-type compounded oils. Has the ability to remove the most finely dispersed contaminants without removing or affecting the additives.

**REFINING PACK** — For use on straight mineral oil, synthetic oils, diesel fuel oil, hydraulic fluids, etc.

★ THERE IS A GENUINE LUBER-FINER MODEL FOR PASSENGER CARS, TRUCKS, TRACTORS, STATIONARY AND MARINE ENGINES, HYDRAULIC OIL SYSTEMS AND MANY INDUSTRIAL APPLICATIONS.

WRITE FOR COMPLETE INFORMATION TO DEPT. 12

**LUBER-FINER, INC.** 2514 S. Grand Ave., Los Angeles 7, Calif



**HERE'S WHY ... drivers and owners prefer a TIMPTE sleeper cab!**

**LIGHTWEIGHT! STURDY! COMFORTABLE!**

The installed weight of a TIMPTE Sleeper cab is only 325 pounds, yet it is so well constructed that it is not uncommon for a TIMPTE Sleeper Cab to outlast two or more truck chassis. Payloads move **Faster and Safer**, too. TIMPTE Sleepers always provide sound restful sleep for drivers ... more profit for you!

Write Today for  
Further Information

**TIMPTE  
DENVER**

**TIMPTE BROS., INC.**

40th and York • Denver 5, Colorado



Indispensable for servicing  
buses, trucks, farm tractors,  
contractors' machinery, drilling  
rigs and other mobile  
Diesel-powered equipment.

Mail Coupon For  
**FREE**  
Service Manual

**COMPRESSION  
PRESSURE**  
Key to  
Diesel  
Efficiency  
**BUL. 692**

**BACHARACH INDUSTRIAL INSTRUMENT COMPANY**  
200 N. Brodbeck Ave., Pittsburgh 8, Pa.

☐ Send me **FREE** copy of your Service Manual Bul. 692.  
☐ Send me Product Leaflet 646 on the MOTORITE

NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

STREET \_\_\_\_\_

CITY & STATE \_\_\_\_\_

DCT-17

## MOTORITE DIESEL COMPRESSION TESTER

Connection of MOTORITE to engine is by means of interchangeable adapters replacing the fuel injector in the cylinder. "Universal" adapter illustrated at left is adjustable for use on more than 100 popular makes and models of Diesels. Additional adapters are available from stock for all Diesel engines listed at right. For other Diesel engines special adapters are made to order.

Allis-Chalmers  
Buda  
Caterpillar  
Cletrac  
Cockshutt  
Continental  
Cummins  
Fordson "Major"  
General Motors  
Gray Marine  
Harnischfeger  
Hercules  
Intern. Harvester  
J. I. Case  
John Deere  
Leyland  
Mack  
Massey-Harris  
Minneapolis-Moline  
Murphy  
Oliver  
Packard  
Perkins  
Shepherd  
Waukesha

SAVE 4 WAYS WITH  
**KIM**  
ELECTRIC PRE-HEATER



QUICK, EASY STARTS



ELIMINATES WARM-UP TIME



REDUCES ENGINE WEAR



NO NEED FOR HEATED TERMINALS

**FOR DIESEL  
AND GASOLINE  
ENGINES**

KIM Hotstart keeps engines warm at night. It is a lightweight pre-heater that is plugged into the electric circuit. KIM draws off cold water from the engine, heats and circulates it through the engine. KIM's use ends cold starts, and cuts winter repair bills. Thousands in use.

SEE YOUR AUTOMOTIVE SUPPLIER OR  
WRITE FOR LITERATURE.

4 MODELS  
EASY TO  
INSTALL

**KIM HOTSTART MANUFACTURING COMPANY**

West 917 Broadway, Spokane 1, Washington



**ELECTRIC  
IMPACT  
WRENCH**

No. 325 \$99.75

No. 330 \$127.50

WITH THE EXCLUSIVE  
REVERSE CAP SWITCH LOCK.  
IT CAN'T BE REVERSED WITH THE  
SWITCH ON. IT LASTS LONGER.

**ALBERTSON & CO., INC.**  
SIOUX CITY, IOWA, U. S. A.

## THOR PORTABLE POWER TOOLS

**1500 tools for automotive service,  
industry, construction**



World's largest exclusive  
manufacturer of portable  
air and electric tools

**THOR POWER TOOL COMPANY**

Prudential Plaza, Chicago 1, Ill.

Branches in all principal cities

## Nov. News Roundup

Continued from Page 309

Central Truck Lines, Inc., Tampa, Fla.—to 58 drivers for accident-free records of up to 15 years.



Continental Baking Co., New York, has added 25 International multi-stop delivery trucks with Metro-Lite bodies to its fleet operations at Davenport, Iowa.

Preventive maintenance and the necessity of keeping accurate cost records were stressed as representatives of Eastern Express's management and terminals held their annual system maintenance meeting at the Bedford, Pa., control station.

Directors of Allied Van Lines have elected Richard LaBelle, Minneapolis, Minn., to the presidency of the firm. LaBelle fills the vacancy created by the recent death of Louis Schramm, Jr.

Wilbur H. Boutell, Flint, Mich., was elected president of the Michigan Trucking Assn. at the group's convention in Detroit.

J. L. Hudson Co., Detroit department store, recently installed a number of Daybrook Speedlift Power Gate hydraulic tail gates on a fleet of their delivery trucks.

Oregon Nevada California Fast Freight recently took delivery of 60 new Fruehauf "Cubeliners" trailers.

Kramer Bros. Freight Lines, Inc., has purchased 65 new semi-trailers at a cost of \$335,000.

Oilfields Trucking Co., specializing in the transportation of road oil and asphalt, recently purchased eight sets of aluminum insulated tanks, seven sets of aluminum non-insulated units, and four sets of steel hot oil tankers from the Fruehauf Trailer Co.

Miller Motor Line of North Carolina (Greensboro) has been purchased by Ryder System, Inc.

T.I.M.E., Inc. has created a training section to develop qualified employees within the organization. Clarence E. Guhl has been named to head the section. Training methods will be developed to cover all employee classifications.

A psychology professor and a government professor from Southern Methodist University will alternate as speakers in a series of two-hour training program class sessions to be sponsored by Dallas (Texas) Transit Co.



Boston Speedometer Service Co., Inc., Boston, Mass., has been appointed dealer for Rockwell-Ohmer taximeters in the Boston area for the Rockwell Manufacturing Co., Pittsburgh, Pa.

(TURN TO NEXT PAGE, PLEASE)

Your eye can see

# NIEHOFF

Superiority



**ENGINEERED FOR LONG LIFE AND PEAK PERFORMANCE**

- Trained eyes can easily see Niehoff's obvious superiority. The built-in advantage that makes Niehoff Ignition Parts superior to any on the market is...the specialized engineering that builds quality. Parts stay on the job longer...with longer periods of peak performance.
- Prove it to yourself. Ask your Niehoff jobber about the experience of other fleet owners and commercial repair shops in your area. Niehoff Ignition means less "Down Time" more "Road Time". That means profit to you.

## C. E. NIEHOFF & co.

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DALLAS, TEX., 2715 Main St.

BOSTON 34, MASS., 250 Brighton Ave.

NEW YORK 19, N.Y., 250 W. 54th St.

PHILADELPHIA, PA., 1800 Fairmont Ave.

BRANCH: LOS ANGELES 15, CAL., 1330 W. Olympic Blvd.

## Nov. News Roundup

Continued from Page 311

Mack Trucks, Inc., Plainfield, N. J., will build a major manufacturing plant at Fremont, Cal.

William J. Hawkins has been appointed to the newly-created position of assistant service manager of the Alemite and Stewart-Warner Instrument Division of Stuart Warner Corp., Chicago.

Ray Long Equipment, Inc., Columbia, S. C., Motor Fleet Service, Inc., Indianapolis, Ind., and J. D. Motor Service, Houston, Texas, have been appointed FWD truck dealers by Four Wheel Drive Auto Co., Clintonville, Wis.

Hugh E. Fortner Dallas, Texas, has been appointed sales representative by Trailmobile Inc., Cincinnati, Ohio.

Orville B. Zimmerman has been appointed sales manager of Oshkosh Motor Trucks, Inc., Oshkosh, Wis.

International Harvester Co. has announced two new transmission side-mounted power take-off assemblies for International light-duty four wheel drive trucks.

R. A. Ramsay has been appointed sales manager of the Mechanics Universal Joint Division of Borg-Warner Corp., Rockford, Ill.

The Wilbar Co. has been appointed distributor in the Washington, D. C., area for the commercial trailer division of Highway Trailer Co., Edgerton, Wis.

# Save Money FOR YOUR FLEET!



get the 4 big economies only ATI  
"Engine-Mated" MUFFLERS provide

1. You won't have to pay fines for noise violations because ATI "Engine-Mated" mufflers meet every recognized noise standard.
2. You get lower costs per mile since these mufflers meet engine manufacturers' requirements as to back pressure to give you greater fuel mileage, greater horsepower, better engine performance.
3. You save on replacements because ATI mufflers last longer... are fully guaranteed against defects in material and workmanship!
4. You save on maintenance since ATI mufflers eliminate the excessive heat that causes burned valves, warped heads, cracked manifolds.

Start saving today! Contact your nearest ATI distributor for proof of these many exclusive ATI benefits. (If you don't know his name, write direct.)

**ALEXANDER-TAGG INDUSTRIES, INC.**  
HATBORO, PA. OSBORNE 5-7200

**CAN YOU TOP THIS? 99.95%  
WATER REMOVAL FROM DIESEL  
FUEL! TRAPS TREMENDOUS DIRT LOAD TOO!**



**ONE TANK  
DOES  
BOTH  
JOBS**



THIS NEW BRIGGS, DUAL PURPOSE, SINGLE STAGE FILTER SEPARATOR DOES AN AMAZING JOB WHEREVER INSTALLED. OWNERS AND DRIVERS CAN TELL YOU WHAT A DIFFERENCE IT MAKES.

STOP INJECTOR PITTING and corrosion, lick headaches of roadside and shop downtime. Here is both an oil filter and a water separator. Single stage operation. COMPLETE PROTECTION for all engines. Low cost, light weight, easy to hook up in small space. Mail this coupon for full description.

**FILTER/SEPARATORS  
REPLACEMENT CARTRIDGES**

THE BRIGGS FILTRATION COMPANY, DEPT. 210, WASHINGTON 16, D. C.  
YES! Send me your complete folder on your filter/separator for trucks and buses.

NAME \_\_\_\_\_  
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## HERE'S HOW TO REALLY CLEAN ENGINES . . . at a Profit!



**HYDRO-SEAL GUNK**  
Carburetor  
and Parts Cleaner



**GUNK DEGREASER**  
The Original Self-  
Emulsifying Solvent

✓ **INSIDE . . .** GUNK® Hydro-Seal is an immersion compound that strips hard carbon, varnish and gums from cylinder heads, carburetors, engine parts safely, easily and completely clean right to the bare metal. After cold immersion, parts can be rinse-cleaned with a water spray. Forms its own surface seal, preventing evaporation of solvent vapors. Hydro-Seal is the fastest-acting and most efficient self-scouring solvent for all engine parts.

✓ **AND OUTSIDE . . .** GUNK Super-Concentrate is a heavy-duty degreaser and emulsifier that can be sprayed, brushed or wiped on engines and machinery and then hosed off with clear water. Result: GUNK's self-scouring action has produced a factory-new appearance. It is one of the most remarkable and successful emulsifying degreasing solvents on the market. No toxic vapors, non-caustic, safe to skin.

**THE CURRAN CORPORATION**

(Home Office) South Canal St.  
LAWRENCE, MASSACHUSETTS

Plants

GUNK Chicago Company  
Chicago 38 (Licensee)





## GMC 1958 Light & Medium Trucks

Series	Wheelbase (in.)	GVW (lb)	GCW (lb)	Engines	
				V-8	6-cyl
100	114, 123 $\frac{1}{4}$	5,000	.....	336	270A
100-8	123 $\frac{1}{4}$	6,900	.....	336	270A
150	123 $\frac{1}{4}$	7,000	.....	.....	270A
150-8	104, 125, 137	9,800	.....	336	270A
PM150	114, 123 $\frac{1}{4}$	10,000	.....	.....	270A
250	135	15,000 <sup>1</sup>	22,000	.....	270A
250-8	104, 125, 137	16,000 <sup>2</sup>	32,000	336	270B
300	132 $\frac{1}{2}$ , 144 $\frac{1}{2}$	18,000 <sup>3</sup>	32,000	336	270B
350	156 $\frac{1}{2}$ , 174 $\frac{1}{2}$	.....	.....	.....	270B
350-8	132 $\frac{1}{2}$ , 144 $\frac{1}{2}$	.....	.....	.....	270B
370	156 $\frac{1}{2}$ , 174 $\frac{1}{2}$	.....	.....	.....	270B
370-8	132 $\frac{1}{2}$ , 144 $\frac{1}{2}$	.....	.....	.....	270B
F350	115, 127, 139	16,000 <sup>2</sup>	32,000	336	270B
F350-8	157, 179	18,000 <sup>3</sup>	32,000	336	270B
F370	115, 127, 139	18,000 <sup>3</sup>	32,000	336	270B
F370-8	157, 179	18,000 <sup>3</sup>	32,000	336	270B
P350	130, 154	15,000 <sup>1</sup>	.....	.....	270B
S300	196 $\frac{1}{2}$	15,000 <sup>1</sup>	.....	.....	270B
S370	196 $\frac{1}{2}$ , 222 $\frac{1}{2}$	19,500 <sup>3</sup>	.....	336	270B
S370-8	242 $\frac{1}{2}$ , 258 $\frac{1}{2}$	.....	.....	.....	270B

### 4-Wheel Drive Models

100	114, 123 $\frac{1}{4}$	5,600	.....	336	270A
100-8	123 $\frac{1}{4}$	7,600	.....	336	270A
150	123 $\frac{1}{4}$	10,000	.....	336	270A
150-8	135	.....	.....	.....	270A
250	.....	.....	.....	.....	270A
250-8	.....	.....	.....	.....	270A

1—16,000 lb optional. 2—19,500 lb optional. 3—22,000 lb optional.

## 1958 GMC Trucks

Continued from Page 54

**A heavier, stronger** front frame cross member provides greater frame rigidity and minimizes front end flexing on all GMC models from the 100 series on through the model 370.

A new bulkhead type radiator mounting has the radiator core bolted directly to the radiator support tie bar and side baffle assembly which in turn is spring-mounted to a frame bracket for more rigidity.

**Six-wheel models with** heat-treated frame rails for 1958 have a high tensile steel reinforcement at the bogie cross member.

Exhaust and vibration noises will be reduced as a result of new flexible muffler and tail pipe mountings on GMC models 100 through 250. Bendix power steering units are available on models 350 and up, a change from former power steering units to give smoother steering.

**On models 100 and 100-8** a "Powr-LOK" differential which permits the rear axle to

send the greatest driving force to the wheel that has the best traction will be offered. The Pow-LOK eliminates wheel spinning as long as one wheel can get traction, enabling the truck to operate on snow, ice or mud as long as one wheel has traction.

It also improves stability when turning corners.

**The Torqmatic transmission** is designed for trucks in the 32,000

to 55,000 lb GVW range. It's basically a torque converter in series with a planetary gear train operated through a hydraulic system. Six forward speeds and four forward driving ranges are provided to eliminate the need of reduction units or wide range axles, which previously were necessary with the Hydra-Matic transmissions for that weight class of trucks.

END

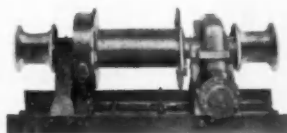
Please Resume Reading Page 56

**P** **LENTY OF**

**P** **ULL**

**P** **OWER**

**P** **LUS** **P** **ERFORMANCE**



That's the guarantee you get when you put a Tulsa Winch to work . . . because Tulsa Winches are precision-made from highest quality materials, then tested to withstand pulls **TWICE** their rated capacities. They are designed for smoothest operation under the most rugged conditions . . . in a wide range of models and sizes. Also a complete line of power take-offs.

## TULSA WINCHES

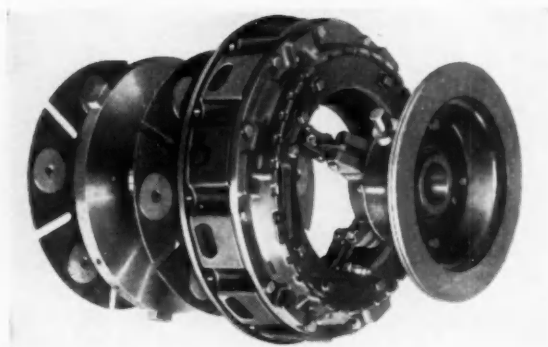
**Tulsa Winch**  
TULSA, OKLAHOMA DIVISION OF VICKERS, INC.

# NEW

# PRODUCTS

DESCRIBING RECENTLY ANNOUNCED PRODUCTS AND EQUIPMENT OF INTEREST TO MEN CONCERNED WITH TRUCK, BUS AND CONSTRUCTION FLEET MANAGEMENT

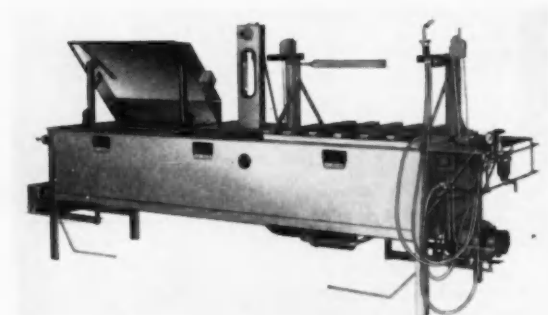
As a special service, complete address of each source is included so readers may save time—write directly for further information on products described



## Double Plate Clutch

*from Rockford Clutch Division  
Borg-Warner Corp., Rockford, Ill.*

utilizes two Morlife plates and has button type facings to provide a brake plate mounted on the heavy-duty ball bearing type release sleeve. Used in large crawler-type tractors and other heavy-duty machines, it provides added torque with a smaller clutch size, says the manufacturer.



## One-Piece Radiator Shop

*from Inland Mfg. Co.  
1106 Jackson, Omaha, Neb.*

combines a Flo-Test machine, hot cleaning vat and test and repair bench into a 11½ x 3½ ft unit. It is large enough, the manufacturer says, for many truck and tractor radiators. The vat and bench are equipped with electric elevators.



## Fiberglass Truck Fenders

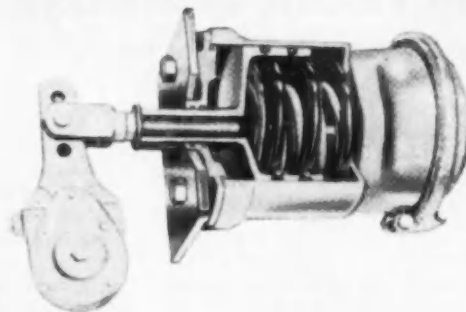
*from Fibraco Co.  
Mason City, Iowa*

for trucks and trailers include tandem sets for four-wheel drive tractors, shorter sets for two-wheel drive tractors and contour fenders for trailers. The contour sets cover 90° of the rear wheel and eliminate the need for mud flaps, says the manufacturer. Through the use of fiberglass, Fibraco says, the fender adds a minimum of weight and has a natural resilience which shakes loose accumulated mud and slush.

## Four New Parking and Auxiliary Brake Systems

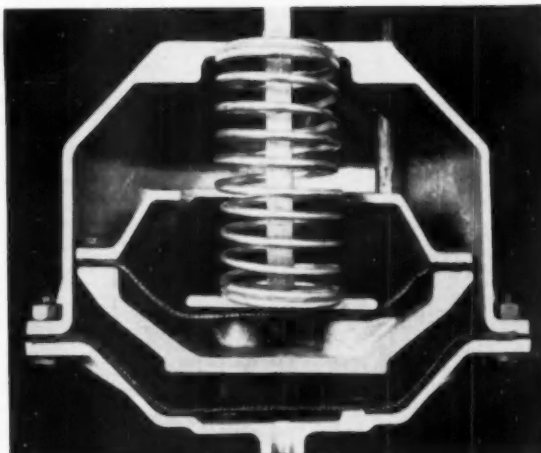
*from the Maxi Corp., P. O. Box 3129  
Terminal Annex, Los Angeles 54, Cal.*

is placed between the service brake chamber and its mounting bracket to provide an automatic, mechanical application of the brake when the normal air supply for the air brake fails. The "Maxibrake" attachment does not affect the operation of the service brake if the reservoir air pressure is above 60 psi. When the air drops below 60 psi the "Maxibrake" spring begins to apply force to the brake chamber push rods. Maximum force is applied when the air is exhausted from the service brake system. "Maxibrakes" can be used also as parking brakes and for emergency stops through the use of a hand valve in the cab.



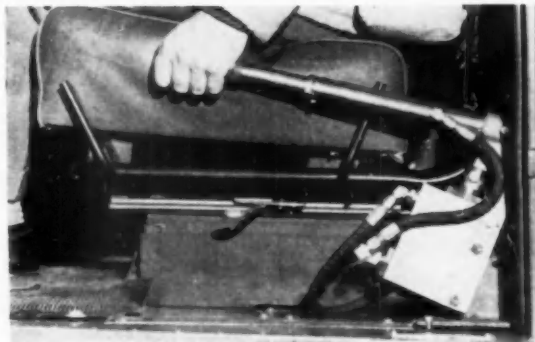
*from Hoppenstand Sales, Inc.  
937 Park Ave., Meadville, Pa.*

has as its main component a double air chamber to provide parking and emergency braking power when activated through an emergency hand lever in the cab. The "Hoppenstand Double Air Chambers" consists of two air chambers, one inside the other. The diaphragm in the inside chamber is activated by conventional means, but when the second is activated from the cab, it pushes the push rod  $3\frac{1}{2}$  in. further out. This feature, says the manufacturer, protects the vehicle from brake failure due to brake fade.



*from Brimco Mfg. Co.  
1820 Industrial Rd., Salt Lake City, Utah*

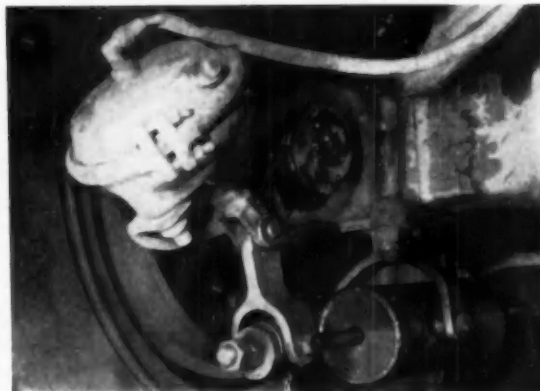
is operated from the cab by the driver using a manually-operated pump. A hydraulic piston—that does not interfere with normal diaphragm operation—is inserted into the air chamber. The piston, when actuated by hydraulic pressure from the driver-operated pump, operates the push rod. System includes a 1-gal hydraulic fluid reservoir. When used as a parking brake, the brakes can be released through a release valve incorporated into the pump handle.



*from MGM Brakes, Inc.  
Miller Bldg., Cloverdale, Cal.*

features a spring-loaded cylinder that applies the brakes in the event of air failure. Vehicle's air pressure holds the cylinder's piston "open" until pressure drops to about 70 psi. At this point, the force of the spring starts to overcome the opposing air pressure. At 50 psi, the spring takes over completely and applies the brakes. As a parking brake, the system is controlled by a manually-operated valve in the truck cab. This "dumps" the air from the "MGM" system, thus applying the brakes. Air in the service brake system is retained. Turning the hand valve again permits air to enter the MGM system and release the brakes. The maker says use of this system eliminates need for a drive line parking brake.

(TURN TO NEXT PAGE, PLEASE)



## New Product Descriptions

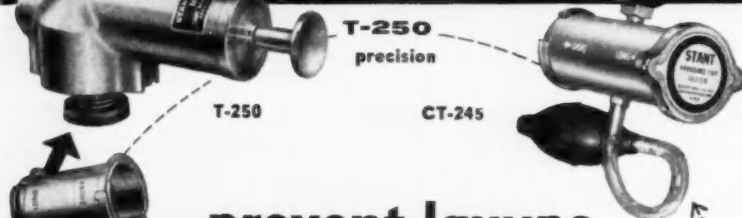
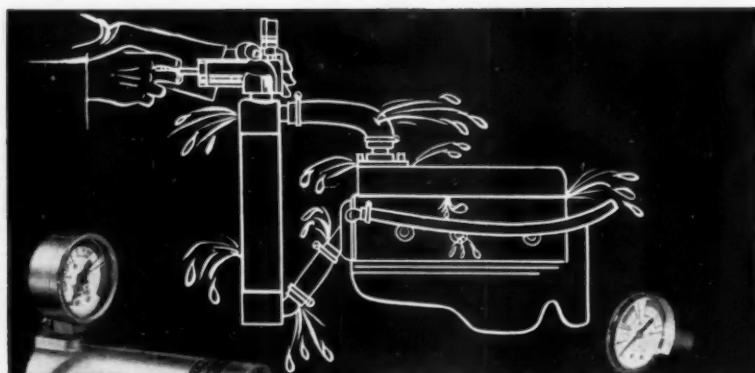
Continued from Page 315

### Tire Spreaders

from Branick Mfg. Co., Inc.  
 Fargo, N. D.

in Models No. 6A, 6AH, and 6AH/EF, can be adapted with a package extension head unit, Model No. 49. The

package unit consists of extension head and arms to spread from 12 to 24 in. bead diameter. A safety holding ring assembly prevents spreading hooks from slipping out with the greater spread, necessary for 2½-in. shoulders on 12, 14, and 15 in. bands.



### prevent layups with a tester

Spot trouble-making leaks instantly with a Stant Precision Tester. Prevent winter-time breakdowns on the road and costly repair layups. Before winterizing, be sure system is tight. Check with a T-250 Tester. Carry a representative stock of Stant Caps for quick service.

Write for catalog to

STANT MANUFACTURING CO., INC.  
 Connersville, Indiana  
 . . . naming your jobber.



**used on America's Finest Automobiles  
 as Standard Equipment for a generation**

### Cargo Heater

from Rue R. Elston Co., Inc.  
 2223 15th Ave. South  
 Minneapolis 4, Minn.

is an LP gas-fired model which is designed to control the temperature in truck vans up to 18 ft. It is either



thermostatically or manually controlled and is equipped with 100 per cent shut off. The manufacturer claims the Model No. X-2000 complies with all ICC regulations. It measures 44 in. high, 11 in. wide and 7 in. deep. The manufacturer further claims that cargo may be packed against the unit without fear of fire.

### Refrigeration Unit

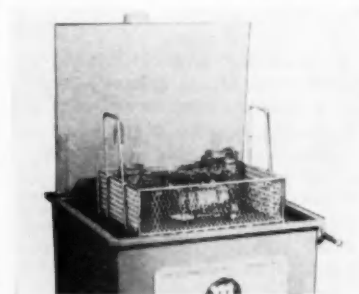
from Aluminum Body Corp.  
 1600 W. Washington Blvd.  
 Montebello, Cal.

for trailers features an hydraulic pump driven by the trailer axle. It uses the electric stand-by motor and eliminates a gasoline auxiliary engine.

### Cleaning Agitator

Magnus Chemical Co.  
 Equipment Division  
 Garwood, N. J.

has been named the "Magnus Miji Lif" and was designed for cleaning small accessory parts such as pistons,



fuel pumps, valves and carburetors. Parts loads of up to 75 lb can be (TURN TO NEXT PAGE, PLEASE)



what's the  
**BIG NEWS**  
in  
**TRUCK  
TIRES**

The big news in truck tires—as in all tires—is, of course, **TUBELESS!** The tubeless tire answers a definite need for more efficient and economical fleet performance. It runs cooler, lasts longer—reduces maintenance, saves time and money.

**INSURE THESE SAVINGS  
WITH PROPER SERVICE**

Because of the extra rigidity and heavy beads built into new, large tubeless truck tires, it is extra important to use RuGLYDE Rubber Lubricant when mount and demounting. RuGLYDE insures faster, safer, easier tubeless tire changes... won't cause rust... insures against damage to the air seal areas. Insures perfect bead seating, and RuGLYDE'S exclusive "Controlled Friction" action prevents after slippage.

Use RuGLYDE in the handy RuGLYDE Service Kit for best results. Write for details.



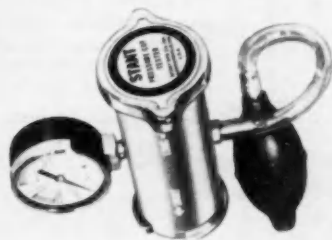
**AMERICAN GREASE STICK  
COMPANY**  
MUSKEGON, MICHIGAN

**AGS**  
PRODUCT

**New Products**

Continued from Page 316

cleaned simultaneously. The machine is worked with compressed air and has no electrical connections. It is available in a 30-gal size with a 21 x 18-in. working platform.



**Pressure Cap Tester**

from *Stant Mfg. Co., Inc.*  
Connersville, Ind.

has been designated Model No. CT-245. It has a 2-in. color-coded dial and cast cap adaptors. The steel body is finished in highly polished chrome plate.

**Weatherproof Coil**

from *F & B Mfg. Co.*  
4248 W. Chicago Ave.,  
Chicago 51, Ill.

for use on buses, trucks, tractors and other fleet vehicles in heavy duty



service, has 173 sq in. of heat dissipation area for control of operating temperature. It features the use of neoprene to guard against weather damage.

**LOADCRAFT AIR-RIDE**



**WITH  
ADVANCED  
DESIGN...**

**CAN BE INSTALLED WHERE  
YOUR TRAILER IS MADE**

The million-mile tested LOADCRAFT AIR-RIDE has what it takes to make you a happy user. In addition to its many patented features, it is now made of lightweight, hi-strength castings for less weight, less cost. Available as initial equipment through many licensed trailer manufacturers.

**HERE'S WHAT IT OFFERS...**

- Units available for tandem- or single-axle trailers.
- Adjustable radius rods for axle alignment and to keep axle vertical at all times.
- Controlled pressure.
- Easy maintenance.

**Manufacturer's Inquiries Invited**

**Spencer Safford**  
**LOADCRAFT, INC.**  
AUGUSTA, KANSAS

Send me more information on Loadcraft Air-Ride.  
I am an operator... manufacturer...

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
TOWN \_\_\_\_\_ STATE \_\_\_\_\_

**now available!**

## GARRISON POWER STEERING for White Trucks

Models 3016 through 3028 and  
Models WC22 through WC28



Garrison kits have everything needed for installation...can be accomplished in a few hours in even the most limited service shop.



Available in kit form for field installation through White factory Branches, Distributors, and Dealers.

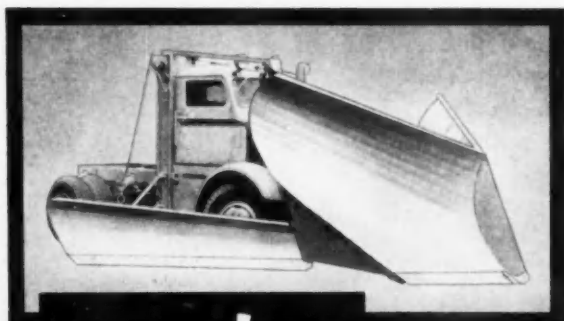
**Provides effortless steering**—With Garrison Power Steering a hydraulic booster cylinder does 80% of the work of steering. Under adverse road conditions only light pressure on the steering wheel gives driver complete control.

**Increases maneuverability**—Better steering control enables driver to quickly maneuver in and out of tight places. More work is accomplished each day with far less driver fatigue.

**Eliminates jarring road shocks**—The power cylinder also serves as a shock absorber, preventing road shocks from reaching the steering mechanism, reducing wear on your equipment.

**Available for other makes and models!** Garrison Power Steering is available for many makes and models of trucks as factory-approved original equipment or in kit form for easy installation in the field. Ask your dealer or write direct for full details.

4609 East Sheila Street, Los Angeles 22, California



## snow plows

select and sell from a complete line of . . .

- "V" PLOWS from 8' to 9 1/2' swath - nose heights 30" to 54"
- WINGS 10' to 12' - partial or complete hydraulic control
- TAPER PLOWS 9' to 12' length of cutting edge - full range of heights - reversible and adjustable or one-way
- STRAIGHT PLOWS reversible - 9' to 12' length - heights from 29" to 42". Also Hydraulic Reversible.
- "RIGHT-V-LEFT" PLOWS hydraulic control in cab converts right hand taper to "V" and to left taper while in motion plus custom designs and sizes



for additional information write  
**THE GLEDHILL ROAD MACHINERY CO.**  
Galion, Ohio

## ROYAL CROWN CHOOSES MEYERCORD TRUCK DECALS



### Decal Truck Signs Achieve National Design Uniformity on Bottlers' Trucks

The New Nehi and Royal Crown decal program is rapidly being adopted by some 450 Nehi bottlers for their trucks and automatic vendors . . . and of course Nehi chose The Meyercord Co. to make them! Nehi and Royal Crown bottlers' trucks now

provide tremendous "traveling billboard" advertising value while the standardization of Meyercord decal signs ties in most effectively with other advertising media. Whether your own fleet has ten trucks or hundreds, it will pay you to get the facts about the advantages of Meyercord Decal Truck Signs . . . may we tell you about them?

## THE MEYERCORD CO.

World's Largest Decalcomania Manufacturers

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**FREE**  
"Ads on Wheels"  
FULL COLOR  
BROCHURE

Ask on company  
letterhead, please.

## For '58, Dodge Increases GVW

Continued from Page 50

900 models. They are designed for quicker response and lower pedal pressure. Air brakes, available on all 600 through 900 models, have across-the-board lining area increases, total up to 250.62 sq in.

Perhaps one of the most significant developments is the adoption of Torqmatic, an adaptation of

the well-known Allison 6-speed transmission. The fully automatic transmission, with built-in hill retarder, will be available on models D500, D600, D700, S500, S600, and S700 with V-8 engines.

Extra-heavy-duty 5-speed syn-

chro shift transmission which is standard on 900 models, is made available on 800 models as well. Another item is the availability of a new 4-speed auxiliary transmission for 900 models. It has two underdrive ratios, a direct drive, and one over-drive ratio.

The LoadLite, push-button controlled automatic transmission, is available for all conventional low-tonnage models; all Forward Con-

(TURN TO NEXT PAGE, PLEASE)

### Dodge 1958 "L" Series Trucks

Series	Wheel- base (in.)	GVW (lb)	GCW (lb)	Engines	
				V-8	6-cyl
Conventional Models					
D100 Swept-side	108, 116	5,100	314.61SR	230.2	
D200	116	5,100	314.61SR	230.2	
D300	126	7,500	314.61SR	230.2	
D400	129, 153, 171	15,000	314.61HD <sup>4</sup>	250.6	
D500	129, 141, 153, 171, 193	19,500	314.61HD <sup>4</sup>	250.6	
D600	129, 141, 153, 171, 193	22,000	314.61DR	265.37 <sup>6</sup>	
D700	129, 141, 153, 171, 193	25,000	354.06DR <sup>1</sup>		
D800	132, 144, 156, 174, 192	29,000	354.06DR <sup>2</sup>		
D900	132, 144, 156, 174, 192	30,000	354.06DR <sup>3</sup>		
COE Models					
C500	106, 132, 162	19,500	314.61HD <sup>4</sup>		
C600	106, 120, 132, 162	22,000	314.61DR		
C700	106, 120, 132, 162	25,000	354.06DR <sup>1</sup>		
Tandem Models					
T700	141, 153, 171, 189	32,000	354.06DR <sup>1</sup>		
T800	144, 156, 174, 192	36,000	354.06DR <sup>2</sup>		
T900	144, 156, 174, 192	46,000	354.06DR <sup>3</sup>		
Forward Control Models					
P300	104, 126	9,000	314.61SR	230.2	
P400	106, 125, 137, 153	15,000	314.61SR	230.2	
School Bus Models					
S400	153	12,000	Based on 314.61HD <sup>4</sup>	250.6	
S500	193	16,000	pupil 314.61HD <sup>4</sup>	250.6 <sup>5</sup>	
S500	217	18,000	314.61HD <sup>4</sup>	250.6 <sup>5</sup>	
S600	236	20,000	314.61DR	265.37 <sup>6</sup>	
S700	236, 254	21,000	354.06DR <sup>1</sup>		
4-Wheel Drive Models					
W100	106, 116	5,100	314.61SR	230.2	
W200	116	8,000	314.61SR	230.2	
W300M	126	9,500		230.27	
W300	129	10,000	314.61HD	250.6	
W500	156, 174	18,000	314.61HD <sup>4</sup>	265.37	
Minivan Models					
D100	95	5,100	314.61SR	230.2	
D200	95	6,000	314.61SR	230.2	

1.—216 hp version. 2.—224 hp version. 3.—twin carburetor version. 4.—314.61DR optional. 5.—265.37 optional. 6.—twin carburetor version optional. 7.—In this model, 113 maximum gross hp, 196 lb ft maximum gross torque.

## IS YOUR SHOP PROTECTED?

STATISTICS SHOW AN AVERAGE OF 50 DEATHS A YEAR FROM INFLATING TRUCK TIRES... PLUS MANY OTHER CRIPPLING INJURIES



### BRANICK Safety Inflation CAGE

Gives Your Entire Shop, Life, Accident and Health Insurance Forever...

The Branick Steel Safety Inflation Cage, is ideal for shops doing truck tire repair work. Constructed of 2" steel pipe, constructed to withstand the terrific exploding force behind the lock rim. Cage will accommodate most 14:00 x 24" and some larger size tires. Larger sizes may be leaned against the side of cage and service man can inflate tire from inside with absolute safety.

**\$90<sup>25</sup>**

FOB FACTORY

### A New Device That Gives Positive Protection While Inflating Truck Tires...

Useful on Service Trucks, as well as in shops, the Safety Inflation Device spells safety for the service man wherever truck tire repairs must be made. Small, compact and easy to use. Tested to withstand many-times more than normal operating pressures.

**\$37<sup>50</sup>** FOB FACTORY



**BRANICK MFG. CO., INC.**

BOX 1937

FARGO

NORTH DAKOTA

**KEN** *quality*  
*job-designed*  
Cut Costs-Save Labor-Reduce Downtime

## HAMMERS

- TRUCKS • TRACTORS
- BUSSES • AIRCRAFT

**T-11C.** Exclusive, patented hammer and bead loosener. Wt.: 6 lbs.

**T-11B.** For removing tires rusted to rims. Chrome-nickel alloy steel. Wt.: 5½ lbs.

**T-35.** Combination steel-rubber. Wt.: 8½ lbs.

**T-34.** Replaceable rubber heads. For large, heavy tires. Wt.: 6 lbs.

**T-36.** Designed for driving between tire and rim to get at stubborn beads. Wt.: 6½ lbs.

SEE YOUR JOBBER  
SAVE LABOR, TIME AND MONEY.  
INSIST ON KEN TOOLS. Finest Quality  
and Design. Largest Exclusive Mfgs. of  
Tire Changing Tools and Equipment.

**The KEN-TOOL Mfg. Co.**  
AKRON 5, OHIO

## CAR WASHERS

AUTOMATIC  
ALL PURPOSE  
SYSTEM  
REVOLUTIONIZES  
VEHICLE WASHING



**Wohlert**  
Corporation  
LANSING 5, MICHIGAN

WRITE FOR  
INFORMATIVE  
FOLDER

## Dependable Refrigeration Unit POWER

Wisconsin Heavy-Duty  
Air-Cooled Engines, 3 to 56 hp.

### WISCONSIN MOTOR CORPORATION

MILWAUKEE 46, WISCONSIN

## '58 Dodge Trucks

Continued from Page 319

trol models; and W100, W200, W300 Power-Wagons with V-8 engines. It is standard on the Minivan.

**A 14,000-lb front axle package** is available as a special equipment item for T900 models. It includes a heavy-duty power steering gear, channel type frame reinforcements at the front, and high capacity 6500-lb front springs. The package is recommended for such vehicles as transit cement mixers, and long-body dump trucks.

A "full-traction" differential is offered as extra equipment for rear axles of all D100 models and for front and rear axles of the W100.

**The W300 marks an addition** to the 4-wheel drive models this year with a maximum GVW rating of 10,000 lb. Featuring conventional styling, it offers a choice of either V-8 or 6-cylinder engine.

Forward Control models are available with a factory-installed body front end section, complete with windshield.

Full-opening alligator hoods have been made full width, will open either to 45 or 90°.

### Classified Advertisement

USED GM71-110 DIESEL INJECTOR  
PARTS. AL, 7120 CARNEGIE, CLEVELAND 3, OHIO.

## BUY BONDS

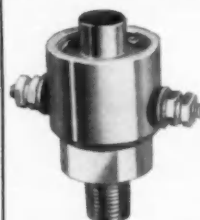


Additional mechanical features are as follows: Battery now located under the hood on all models except COE's and Forward Control. Double-wrapped spring eyes now are employed on all medium- and high tonnage models.

END

Please Resume Reading Page 52

## I. C. C. REGULATION—193.25 (D)



AVAILABLE  
ALSO  
IN  
BRACKET TYPE  
MOUNTING

### The New Robinson Self-Lubricating PISTON-TYPE TRAILER EMERGENCY STOP-LIGHT SWITCH

No Bobtail Problems  
Only Two Terminals  
Simple Installation

THIS IMPORTANT LINK IN THE SAFETY CHAIN MUST NOT FAIL; the diaphragm or cylinder cup type of switch often does fail, due to the inherent weakness of the diaphragm or cup itself, which causes loss of air. THE ROBINSON LOW PRESSURE WARNING and the TRAILER EMERGENCY STOP-LIGHT SWITCHES will outlast present types many times over. They carry a FULL YEAR'S guarantee against failure. Here's why the Robinson switches are longer lasting:

CONTAIN NO DIAPHRAGMS OR CYLINDER CUPS—These new Robinson switches do not operate like present types. They use a piston-type action for much longer life. And they don't require lubrication. This is because the piston is made of a patented material that is self-lubricating, and impervious to the moisture and temperatures encountered.

**ROBINSON ENGINEERING  
AND SALES CO.**

14550 Wyoming Avenue • Detroit 21, Michigan

## RADIATOR REPAIRMEN!

For easier, faster, more efficient service use —

AND for your PROTECTION recommend GUARANTEED —



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Supply Catalog



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### LAKE AUTO RADIATOR

5200 W. 130th St., Cleveland 30, Ohio  
Branch—2115 E. 25th St., Los Angeles 58, Calif.



## '58 Ford Trucks

Continued from Page 52

transmissions in the medium and heavy duty trucks and new extra heavy duty transmissions for the tandem trucks, for which heavier duty auxiliary transmissions are also offered. A new eight-speed transmission is available for the heavy and extra heavy duty trucks.

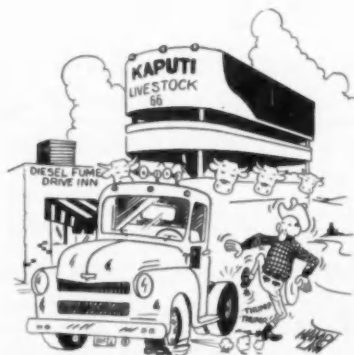
### Ford 1958 Trucks

Series	Wheel-base (in.)	GVW (lb)	GCW (lb)	Engines	
				Standard	Optional
<b>F Series</b>					
F100	110, 118	5,000	.....	223	272
F250	.....	7,400	.....	223	272
F350	.....	9,800 <sup>1</sup>	.....	223	272
F500	130, 154	15,000	25,000	223	272
F600	130-192	17,000 <sup>2</sup>	29,000 <sup>2</sup>	223	272HD
F700	.....	21,000 <sup>3</sup>	35,000	272	272HD
F750	.....	22,000	42,000	302	.....
F800	.....	25,000	50,000	332	.....
F900	.....	29,000	60,000	332	.....
<b>C Series</b>					
C550	.....	18,000	25,000	272	272HD
C600	.....	18,000 <sup>4</sup>	29,000 <sup>4</sup>	272	272HD
C700	99, 111,	22,000 <sup>5</sup>	35,000	272	272HD
C750	135, 153	23,000	42,000	302HD	.....
C800	.....	26,000	50,000	332HD	.....
C900	.....	30,000	60,000	332HD	.....
<b>T Series</b>					
T700	144, 156,	28,000 <sup>6</sup>	.....	272HD	302HD
T750	175, 192,	37,000	55,000	332HD	.....
T800	.....	43,000 <sup>7</sup>	65,000	332HD	.....
<b>B Series</b>					
B500	.....	15,000	.....	223	272
B600	.....	17,000 <sup>8</sup>	.....	223	272HD
B700	.....	21,000 <sup>9</sup>	.....	272	272HD
B750	.....	22,000	.....	302	.....
<b>P Series</b>					
P350	.....	8,000	.....	223	272
P400	.....	10,000	.....	223	272
P500	137, 154	15,000	.....	223	272
Courier	.....	4,600	.....	223	292 <sup>9</sup>
Ranchero	.....	4,600	.....	223	292 <sup>9</sup> 352 <sup>9</sup>

<sup>1</sup>—7,800 lb GVW for pick-up. <sup>2</sup>—19,500-lb GVW, 32,000-lb GCW optional. <sup>3</sup>—22,000-lb GVW optional. <sup>4</sup>—20,500-lb GVW, 32,000-lb GCW optional. <sup>5</sup>—23,000-lb GVW optional. <sup>6</sup>—32,000-lb GVW, 45,000-lb GCW optional. <sup>7</sup>—45,000-lb GVW optional. <sup>8</sup>—19,500-lb GVW optional. <sup>9</sup>—Specifications not available.

END

Please Resume Reading Page 54



COMMERCIAL CAR JOURNAL, November, 1957



## Makers & users of trailers choose Royalite ... for better insulation in durable reefer paneling.

Some of America's largest truck and trailer manufacturers and fleet owners find that nothing measures up to Royalite paneling for refrigerated units. With its K factor of 1, Royalite insulates as much as four times better than other rigid materials, eliminating the need for a separate breaker. It provides more even distribution of cooling—reduces power costs. It is lightweight, easier and less expensive to install and maintain. Royalite (the industry's standard for ABS\* plastics) is sanitary, acid resistant and durable—keeps its extraordinary toughness even at very low temperatures. Find out how you can benefit in your "reefer" operation. Write:

\*acrylonitrile, butadiene and styrene



**United States Rubber**

2638 NORTH PULASKI ROAD, CHICAGO 39, ILL.

321

# more miles per dollar!

## *Bendix*\*

### ELECTRIC FUEL PUMP



for trucks, buses  
and  
passenger cars

Learn more about this new and improved fuel pump.

Write for descriptive folder and specifications.

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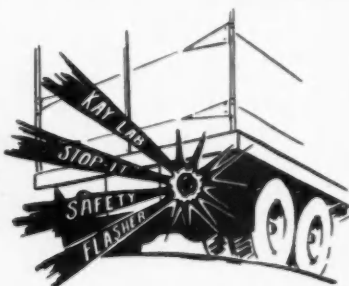
ECLIPSE MACHINE DIVISION ELMIRA N. Y.

*Bendix*  
AVIATION CORPORATION

### "KAY LAB"

FOR DEPENDABLE  
QUALITY PRODUCTS

KAY LAB is repeatedly the choice with every City, County and State government requiring flashing lights on emergency vehicles because only Kay Lab has the features specified.



#### "STOP-IT" SAFETY FLASHER

Finest flasher made. Makes lights flash on-and-off. Used for flashing warning signals and directional signals. Available in 4 types. Will flash any auto lamp to 64 candlepower, 5 ampere, standard ratings 6 or 12 Volts.



#### ALTERNATING FLASHER

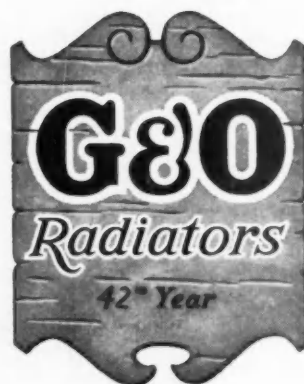
HEAVY DUTY. Meets requirements of State Laws for alternating flashing signals. Up to 15 amperes, 6 or 12 Volts. No parts to wear out; requires no lubrication, no upkeep. Operates magnetically. Good for lights or horn signals.



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Write for this free, fact-loaded folder comparing tandems.

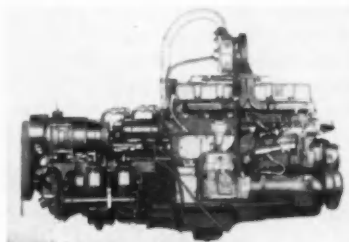
## TRUCKSTELL

1437 Union Commerce Building, Cleveland 14, Ohio

## Mack Unveils Intercity Bus

Continued from Page 56

four-cycle. Bore and stroke are respectively  $4\frac{7}{8}$  and 6 in. for a total piston displacement of 672 cu in. Compression ratio is 16.59 to 1. Rated output of the engine is 205 bhp at 2100 rpm. Maximum torque is 560 lb ft at 1500 rpm.



Cylinder liners are of the dry type, made from centrifugally-cast close-grained iron.

Supercharging is by means of an exhaust-driven centrifugal blower unit, bolted directly to the center of the exhaust manifold that delivers air through ducting to the intake manifold. An exhaust muffler is dispensed with because of the expanding and cooling action of the turbocharger turbine.

**The transmission is** a new Mack 4-speed mechanical type, with constant-mesh helical gears and gear-type shifting clutches. All forward speeds are shifted manually, with a solenoid being used for reverse. Integral with the transmission is a bevel gear angle take-off from which the drive is transmitted through a propeller shaft (using two needle-bearing Spicer universal joints) operating at  $52^\circ$  angle to the Mack single-reduction rear axle. Spiral-bevel driven at 3.73 to 1 final ratio, the rear axle has its pinion gear disposed at an angle of  $52^\circ$  to accommodate the diagonal drive from the transmission.

Accessory drive is from a shaft passing through the transmission and terminating in drives to the air compressor, fan, coolant pump, generator, etc. The thermostatically-controlled air conditioning

system is powered by a separate 4-cyl diesel engine driving a 5-ton compressor.

**Four rubber-and-nylon** bellows on each axle comprise the air suspension. These bellows are

mounted on the ends of box-section members bolted directly to the bottoms of the axles much in the same manner as conventional leaf springs. Contained in the base structure of the body are metal air chambers connecting with the bellows. Air from the bus air system is supplied to these chambers through three leveling valves, one for the front axle and one for each side of the

(TURN TO NEXT PAGE, PLEASE)

## HOW to Safely Repair TRUCK TUBELESS TIRES

Always use this  
*Approved*  
"DEEP CURE"  
METHOD

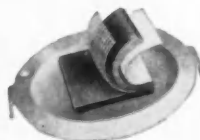
**1** BUFF thoroughly to completely remove all graphite, mica and soap lubricants. Do not buff through liner.

**2** THREAD puncture hole with filler rubber to prevent fabric deterioration from moisture.

**3** APPLY "Dillectric" Nylon Patch and vulcanize with Dillectric No. 6685 and "U" Clamps.

*Safety should never be sacrificed for "short-cuts"*

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Reinforced with over 1500 inches of Nylon filament woven into a square mesh fabric. Provides vital strength for tubeless tire repair safety.

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Electrically Vulcanized Repairs  
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Includes truck tire "U" Clamp with secondary and ground wires. No. 6633 Buffer Kit, No. 5213-T Threading Tool, No. 5218 Pressure-Lube Gun, and package of 25 No. 6626-25 Dillectric Nylon Patch Units with Filler Rubber.

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THE

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MANUFACTURING COMPANY

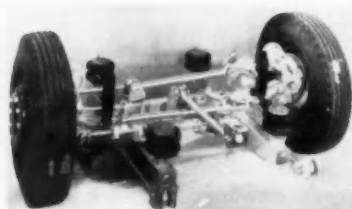
700 East 82nd St., Cleveland 3, Ohio

## Mack Intercity Bus

Continued from Page 323

rear axle, which adjust the pressure automatically according to load in the bus.

Alignment of the axles is maintained—and braking and driving torque taken by a system of tubular radius and torque rods. At the front axle there are one upper



and two lower torque rods, and one transverse radius rod. At the rear there are two lower torque rods and an upper wishbone combination. Direct-acting telescopic-

type hydraulic shock absorbers are used front and rear.

### Of the worm and roller

type, the steering gear is mounted on the front axle beam. It is connected with the steering column by a shaft with two universal joints that is bevel-gear-driven from the end of the steering column. To provide a comfortable steering wheel angle, the upper portion of the steering column is tilted rearward at 27°. A universal joint is used in the steering column for this purpose.

At the lower end, the vertically-disposed cross shaft of the steering gear is connected by a pitman arm to the transverse drag link.



Vickers power steering is applied directly to the steering knuckle end of the drag link, the integral valve being actuated by a pitman arm ball. The hydraulic pump for power steering is belted to the accessory drive.

Wheels are forged aluminum disks, with 10 studs and 7.5-in. rims, for 11.00-20 tires. Brakes are of the two-shoe type, air-actuated by individual chambers combined with slack adjusters. Front brakes are 15-in. diam by 6-in. wide, and the rear brakes are 15 by 8½ in., for a total effective area of 843 sq in.

END

Please Resume Reading Page 58



### "Hackies Have To Be He-Men!"

Tooling a cab through a tangled big-city traffic snarl takes a tough driver! It also takes tough equipment designed to stand up under tens of thousands of stop-and-go miles. That's why the most efficiently-operated taxi fleets rely on BLUE STREAK heavy-duty ignition parts. They're made for the smart fleet man who saves dollars on oper-

ating costs instead of pennies on parts. Next time you need ignition replacements, ask the man for the blue-chip "insurance" line! Ask for premium BLUE STREAK parts! For more information, write: Standard Motor Products, Inc. Long Island City 1, New York.



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## Manufacturers' Literature

(See Page 44 for Fleetman's Library)

**Skidmore-Wilhelm's Impact Wrench Calibrator and Tensile Tester Brochure.** Describes uses of calibrator in checking threaded fastener strength, calibrating and maintenance testing of power wrenches, and for setting assembly torque standards. Free four-page booklet from Skidmore-Wilhelm Mfg. Co., 442 South Green Rd., Cleveland 21, Ohio.

**Holan's Series 6800 Power Derrick Brochure.** Four page booklet describes, with field photos, features, dimensions and capacities for derrick with or without extendible boom head. Free from J. H. Holan Corp., 4100 West 150th St., Cleveland 11, Ohio.

**Universal Test Stands for Diesel Fuel Injection Systems.** Folder describes testing and calibrating popular makes of fuel pumps and injectors commonly used by trucking, petroleum and marine operators. Free four-page folder from Diesel Control Corp., 226 North Marine Ave., Wilmington, Cal.

**Daybrook Speedlift Power Loader Catalogue, Form No. PL-457.** Power Loader, installed on the truck frame immediately at the rear of the cab and operated within a full 360° area of the truck, is covered. Four pages, free from Daybrook Hydraulic Division, L. A. Young Spring & Wire Corp., Bowling Green, Ohio.

**Cash-Stasher Safe Catalogue, Form No. LL-5487.** Safe for trucks, salesmen's autos, milk or bakery delivery vehicles, taxis to avoid pilfering is featured. Free from Reliable Distributing Co., 12614 Superior Ave., Cleveland 12, Ohio.

**Liquid Handling Equipment, Catalogue No. 65,** covers loading arm assemblies, loading valves, swing joints, truck tank equipment, storage tank fittings and other products for the handling of bulk liquids. The 100-page book also contains full specifications, diagrammatic view and recommended applications on all standard products. Free from Wheaton Brass Works, Springfield Road, Union, N. J.

**Rubber Torsional Spring Suspension Truck Seat brochure** describes the Bostrom Level Ride 80 system in a flip-card style presentation. Free from Bostrom Mfg. Co., 133 West Oregon St., Milwaukee 4, Wis.

**Morhaul Equipment** describes the equipment which allows truckers to "park a body, not a truck" with self-contained equipment. Brochure free from Special Products Division, Moore-Handley, P. O. Box 2572, Birmingham, Ala.

**Weigh-Tronic Scale Systems, Bulletin No. 509,** lists features of system which allows vehicles to be weighed either moving or stopped. Free from Taller & Cooper, 75 Front St., Brooklyn 1, N. Y.

**Lee Truck Tires, Catalogue No. C-414,** covers Lee's complete line of truck tires for on- and off-highway use. Included in 16-page booklet are facts about job payload performance. Free from Lee Rubber & Tire Corp., Conshohocken, Pa.

**Aetna General Catalogue and Engineering Manual** includes an 18-page engineering data section to correlate Anti-Friction Bearing Manufacturers Assn. (AFBMA) terminology with Aetna designs and performance data. Free from Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 30, Ill.

**Steam Cleaner Bulletin No. P-5571** describes the new Mark series of three direct-fired Kelite steam cleaners. Free from Kelite Corp., 81 Industrial Road, Berkeley Heights, N. J.

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# B.F. Goodrich TUBELESS TRUCK TIRES



## Power Express gives trucker 20% more mileage, eliminates blowout problems

GALLAGHER Transfer & Storage Co. of New Orleans, Louisiana, does both local and long-distance moving. Trucks operate 60 hours a week, much of it in stop-and-go city driving. Rapid tire wear is common in this work—but not for Gallagher. This company uses B.F. Goodrich Power Express Tubeless tires, reports they give 20% more mileage than conventional tires and eliminate blowout problems.



**IMPACT BRUISES** caused blowouts for Gallagher Transfer before they switched to B.F. Goodrich Power Express Tubeless tires.

One reason for this extra service is the revolutionary X-99 compound that completely covers the tread. X-99 helps prevent cracking and cut growth, lengthens tire life. The Power Express tread has 17% more gripping edges to give you more traction and skid resistance. Patented nylon shock shield defies bruises.

Instead of an inner tube, the Power Express has an inner liner that's part



**B.F. GOODRICH** Traction Express tires give Jocie Motor Lines, Inc., Charlotte, N. C., an average of over 100,000 original miles plus 4 retreads.

of the tire itself. This liner slows air loss, protects against sudden blowouts. When a puncturing object enters, it tends to grip it, preventing sudden flats. B.F. Goodrich Tubeless tires save you weight over old conventional wheel assemblies as well as the time and cost of tube and flap trouble.

B.F. Goodrich Power Express tires are available in either Tubeless or tube-type construction at your B.F. Goodrich dealer's. See him today or write B.F. Goodrich Tire Company, A Division of The B.F. Goodrich Company, Akron 18, Ohio.

Specify B.F. Goodrich tires when ordering new trucks & trailers

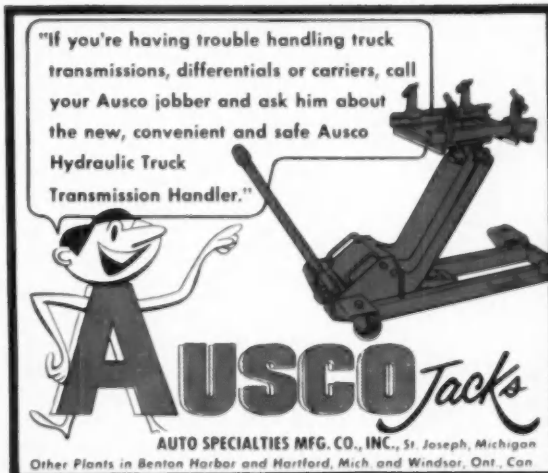
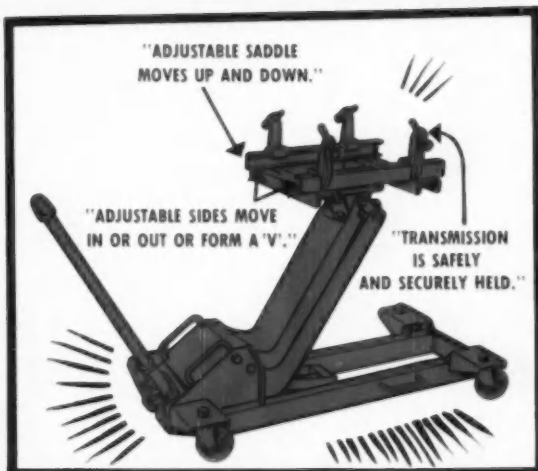


Your B.F. Goodrich dealer is listed under Tires in the Yellow Pages of your phone book

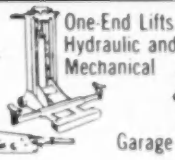
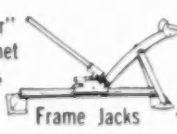


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for every  
service need!



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at FWD in Clintonville**

Whether you want better traction, greater safety or bigger payloads . . . we've proved we know more about these than any other company in the world. Excuse our immodesty, but if there's a trend toward multi-wheel drive—for a lot of specialized vehicle uses—we started it all 47 years ago at FWD in Clintonville. We've had a lot of experience here and we invite you to use us as your own resource for any unusual vehicle problem.

THE FOUR WHEEL DRIVE AUTO COMPANY ·  
CLINTONVILLE, WISCONSIN · CANADIAN FACTORY ·  
KITCHENER, ONTARIO.



**HEAVY DUTY VEHICLE SPECIALISTS**



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FIRE FIGHTING  
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